

SYLLABUS SCHEDULE FOR SESSION 2016-17

Business Studies

Class - XI

Unit I April 4 to May 16

18 + 11 = 29 working days

Chapter-1: Nature and Purpose of Business

- Concept and characteristics of business
- Business, profession and employment - distinctive feature
- Objectives of business - economic and social, role of profit in business
- Classification of business activities: Industry and Commerce
- Industry - types : primary, secondary, tertiary
- Commerce: Trade and Auxiliaries
- Business risks - nature and causes.

Weekly Test : 16.05.16

Chapter - 2: Forms of Business Organisations

- Sole Proprietorship: Joint Hindu Family Business-meaning, features, merits and limitations.
- Partnership - meaning, types, registration, merits, limitations, types of partners
- Cooperative Societies-types, merits and limitations
- Hindu Undivided Family – Features
- Company : Private Ltd., Public Ltd. - merits, limitations
- Starting a business

Chapter - 3: Private, Public & Global Enterprises

- Private Sector and Public Sector
- Forms of organising public sector enterprises
- Departmental Undertaking
- Statutory Corporation
- Government Company
- Changing role of public sector
- Global Enterprises (Multinational Companies): meaning and features, joint ventures - meaning, benefits

Unit II July 1 to August 8

21 + 6 = 27 working days

Chapter - 4: Business Service

- Nature, types of business services - Banking, Insurance, Communication, warehousing
- Banking - types of Bank Accounts
- Banking services – RTGs, NEFT, bank overdraft, e-banking
- Insurance - principles, types: life, fire and marine
- Postal and Telecom services
- Warehousing : types of functions.

Weekly Test : 08.08.16

Chapter - 5 : Emerging Modes of Business

- E-Business - Meaning, scope and benefits, Resources required for successful e-business implementation, On-line transactions and payment mechanism
- Outsourcing - Meaning of Outsourcing, concept of BPO and KPO, merits and concerns.

Chapter - 6 : Social Responsibility of Business and business Ethics

- Concept of social responsibility
- Case for social responsibility
- Responsibility towards owners, investors, employees, consumers, government, community and public in general.
- Business and environmental protection:
- Business ethics: concept and elements

Weekly Test : 29.08.16

First Semester Examination September 17 to September 30, 2016

Unit III August 9 to September 16

14 + 11 = 25 working days

Chapter - 7 : Formation of Company

- Promotion - Functions of a promotion

- Incorporate
- Capital subscription
- Commence of business

Chapter - 8 : Sources of Business Finance

- Nature and significance
- Owner's funds and borrowed funds
- Sources of raising Finance:
 - Equity and Preference shares
 - Global Depository Receipt, American Depository Receipt
 - Debentures and Bonds
 - Retained Profits
 - Public deposits
 - Loans from Financial Institutions
 - Loan from commercial Banks
 - Trade Credit
 - ICD (Inter Corporate Deposits)

Weekly Test : 28.11.16

Chapter -9: Small Business:

- Small Scale Industry: Tiny Sector, cottage and rural industry
- Role of small business in India
- Problems of small business in India.
- Government Assistance and Special Schemes for Industries in rural, backward and hilly area.

Unit IV October 3 to November 30

14 + 21 = 35 working days

Chapter - 10: Internal Trade

- Meaning, wholesale trade, retail trade, their services.
- Types of Retail Trade:
 - Itinerant retailers and fixed shops retailers.
 - Small retailers, large stores, Vending Machines.

Weekly Test : 16.01.17

Chapter - 11: International Trade

- Meaning and types of internal trade: wholesale and retail;
- Services of a wholesaler and retailer
- Types of Retail Trade:
 - Itinerant retailers and fixed shops.
 - Departmental store, super market, malls chain store, mail order business,
 - Automatic Vending Machine
- Terms of Trade and main documents used in international trade
- Role of Chamber of Commerce and Industry in promotion of internal trade.

Chapter -12: International Trade

- Concept and problems of International Trade;
- Way of entering into international Business. Export-Import Procedures and documentation.
- Role of WTO.

Project Work

Suggestive / Illustrative Projects

Any one of the following:-

- Find out from local sample business unit (s) the various objectives they pursue.
- Problems of setting up and running business units.
- Enquiry into the ethics of running business through questionnaires.
- Survey of quality of bank services in the local branch office.
- Study of postal and courier mail services.
- Availability and use of agency services, advertising, packaging, investments in savings schemes, etc.

Unit V December 1 to February 10

21 + 17 + 8 = 46 working days

Second Semester Examination February 11 to February 23, 2017

SYLLABUS SCHEDULE FOR SESSION 2016-17

Accountancy

Class - XI

Unit I April 4 to May 16

18 + 11 = 29 working days

Introduction to Accounting

- Accounting - Objectives, advantages and limitations, Different users of accounting information and their needs.
- Basic Accounting Terms- Asset, Liability, Capital, Expense, Income, Expenditure, Receipts Revenue, Debtors, Creditors, Goods, Cost, Gain, Stock, Purchase, Sales, Loss, Profit, Voucher, Discount, Drawings, Business Transaction, Account.

Recording of Business Transactions :

- Voucher and Transactions : Origin of Transactions-Source Documents and Vouchers, preparation of Accounting vouchers, Accounting Equation Approach - Meaning and Analysis of transactions using Accounting Equation, Rules of Debit and Credit.
- Recording of Transactions : Books of original entry.

Weekly Test : 02.05.16

Unit II July 1 to August 8

21 + 6 = 27 working days

Special Purpose Books :

- i. Cash Book - Simple, Cashbook with discount column, Cash Book with discount and Bank column and Petty Cashbook
- ii. Purchases Book, Sales Book, Purchase Returns Book, Sales Returns Book, Journal Proper, Ledger, utility, format; posting from Subsidiary books; Balancing of Accounts.

Weekly Test : 25.07.16

Unit III August 9 to September 16

14 + 11 = 25 working days

Bank Reconciliation Statement

- Meaning, Need and Preparation, Corrected Cash Book Balance.

Trial Balance

- Trial Balance : meaning, objectives and preparation.

Rectification of Errors

- Errors : Types of Errors; errors affecting Trial Balance; errors not affecting Trial Balance.
- Detection and Rectification of Errors (One sided and two sided); Preparation of Suspense Account.

Weekly Test : 16.08.16

First Semester Examination September 17 to September 30, 2016

Unit IV October 3 to November 30

14 + 21 = 35 working days

Depreciation : Meaning and need for charging depreciation, factors affecting depreciation, methods of depreciation-Straight Line Method, Written Down Value method (excluding change in method), Method of recording depreciation-charging to asset account, creating provision for depreciation/accumulated depreciation account; Treatment of disposal of asset.

Provisions and Reserves : meaning, importance, difference between Provisions and Reserves, types of Reserves : Revenue Reserve, Capital Reserve, General Reserve, Specific Reserve and Secret Reserves;

Accounting for Bills of Exchange Transactions

- Bills of exchange and Promissory Note : definitio, features, parties, specimen and distinction.
- Important Terms : Term of Bill, Accommodation Bill, Days of Grace, Date of Maturity, Bill at Sight, Bill after date, Negotiation of bill, Endorsement, Discounting of Bill, Dishonour of bill, Retirement and Renewal of a Bill.
- Accounting treatment of bill transactions.

Weekly Test : 15.11.16

Unit V December 1 to February 10

21 + 17 + 8 = 46 working days

Financial Statements

- Financial statements : meaning and users.
- Distinction between Capital Expenditure and Revenue Expenditure
- Trading and Profit and Loss Account : Gross Profit, Operating Profit, Net Profit
- Balance Sheet : need, grouping and marshalling of Assets and Liabilities.
- Adjustments in preparation of financial statements with respect to closing stock, outstanding expenses, prepaid expenses, accrued Income, Income received In advance, depreciation and bad debts, provision for doubtful debts, provision for discount on debtors, manager's commission, abnormal loss, goods taken for personal use and goods distributed as free sample.
- Preparation of Trading and Profit & Loss Account and Balance Sheet of sole proprietorship.

Theory Base of Accounting

- Accountign Principles - meaning and nature.
- Accounting Concepts : Entity, Money Measurement, Going Concern, Accounting Period, Cost Concept, Dual Aspect, Revenue Recognition (Realisation), Matching, Accrual, Full Disclosure, Consistency, Conservatism, Materiality.

Weekly Test : 19.12.16

Financial statements of Non-for-profit organisations

- Not-for-profit organisations - concept
- Receipts and Payment Account
- Income and Expenditure Account and balance sheet from the given receipt and payment account with additional information.

Accounts from incomplete records

- Incomplete records : meaning, uses and limitations, Ascertainment of profit/loss by statement of affairs method.

Computers in Accounting

- Introduction to Computer and Accounting Information System (AIS)
- Applications of computers in accounting :
 - Automation of accounting process, designing accounting reports, MIS reporting, data exchange with other information systems
- Comparison of accounting process in manual and computerized accounting, highlighting advantages and limitations of automation
- Sourcing of accounting system : readymade and customized and tailor-made accounting system. Advantages and disadvantages of each option.

Project work :

- Collection of source documents, preparation of vouchers, etc.
- Preparation of Bank Reconciliation statement with the help of given Cash Book and Pass Book.
- Project work on any windows based Accounting Package.

Second Semester Examination February 11 to February 23, 2017

SYLLABUS SCHEDULE FOR SESSION 2016-17

Economics

Class - XI

Unit I April 4 to May 16

18 + 11 = 29 working days

Statistics :

1. Organisation of data
2. Diagrammatic presentation of data
3. Graphic presentation of data

Theory :

1. Indian Economy on the Eve of Independence
2. Indian Economy (1950-1990)

Unit II July 1 to August 8

21 + 6 = 27 working days

Statistics :

1. Introduction
2. Collection of data
3. Tabular presentation of data
4. Measures of central tendency - Arithmetic Mean

Theory :

1. Liberalisation, Privatisation and Globalisation : An Appraisal.

Unit III August 9 to September 16

14 + 11 = 25 working days

Statistics :

1. Measures of central tendency - Median (including quartiles) and mode.

Theory :

1. Poverty
2. Human capital formation

First Semester Examination September 17 to September 30, 2016

Unit IV October 3 to November 30

14 + 21 = 35 working days

Statistics :

1. Measures of Dispersion (Range and Coefficient of Range, Quartile deviation and its coefficient, Mean deviation and its coefficient, standard deviation and its coefficient, coefficient of variation, Lorenz curve)

Theory :

1. Rural Development
2. Employment : Growth, Informalisation and other issues
3. Inflation
4. Infrastructure

Unit V December 1 to February 10

21 + 17 + 8 = 46 working days

Statistics :

1. Measures of correlation
2. Index Numbers
3. Project in Economics

Theory :

1. Environment and Sustainable Development
2. Comparative Development Experience of India and its Neighbours.
3. OTBA are to be discussed.

Second Semester Examination February 11 to February 23, 2017

SYLLABUS SCHEDULE FOR SESSION 2016-17

Mathematics

Class - XI

Unit I April 4 to May 16

18 + 11 = 29 working days

Trigonometry — Measurement of Angles, Definition of sine and cosine functions with the help of a unit circle, values of $\sin x$, $\cos x$ for $x = 0, \pi/6, \pi/4, \pi/3, \pi/2$. Meaning of trigonometric identity, Proofs of the various trigonometry identities. Generated angles, degree measure and radian measure of an angle, relation between degrees and radians, the six trigonometric functions, sine, cosine, tangent, cosecant, secant, cotangent, values of trigonometric functions at $0^\circ, 30^\circ, 45^\circ, 60^\circ$ and 90° , restatement of trigonometric identities for angles, graphs of the various trigonometric functions.

Trigonometric Functions - General solution of trigonometric equations of the type $\sin \theta = \sin \alpha, \cos \theta = \cos \alpha$ and $\tan \theta = \tan \alpha$.

Monday Test : 09.05.16

Unit II July 1 to August 8

21 + 6 = 27 working days

Sequence and Series : - Sequences, examples of finite and infinite sequences, A.P., G.P., their first terms, common differences, n th terms sum of n terms of an A.P. arithmetic means, insertion of A.M. between any two given numbers. First term, common ratio, n th term, sums of n terms and infinite number of terms of a G.P., geometric mean, insertion of G.M. between any two given numbers, recurring decimal number as G.P., Special cases of $\sum n, \sum n^2, \sum n^3$.

Complex Numbers and Quadratic Equations - Need for complex numbers, especially $\sqrt{-1}$, to be motivated by inability to solve every quadratic equation. Brief description of algebraic properties of complex numbers. Argand plane and polar representation of complex numbers. Statement of Fundamental Theorem of Algebra, solution of quadratic equations in the complex number system.

Monday Test : 1.08.16

Unit III August 9 to September 16

14 + 11 = 25 working days

Permutations and Combinations - Fundamental principle of counting, Factorial n . Permutation and combinations, derivation of formulae and their connections, simple applications.

Binomial Theorem - History, statement and proof of the binomial theorem for positive integral indices. Pascal's triangle, general and middle term in binomial expansion, simple applications.

Monday Test : 22.08.16

First Semester Examination September 17 to September 30, 2016

Unit IV October 3 to November 30

14 + 21 = 35 working days

Coordinate Geometry — Recall of Cartesian system of rectangular co-ordinates in a plane, distance formula, area of a triangle, condition for the collinearity of three points and section formula, centroid and in-centre of a triangle, locus and its equation, slope of a line, parallel and perpendicular lines, intercepts of a line on the coordinate axes.

The Straight line and Family of lines — Various forms of equations of a line, intersection of lines, angles between two lines, condition for concurrency of three lines, distance of a point from a line, coordinates of orthocentre and circumcentre of a triangle, equation of family of lines passing through the point of intersection of two lines.

Circles — Standard form of the equation of a circle, general form of the equation of a circle, its radius and centre, equation of a circle in the parametric form, equation of a circle when the end points of a diameter are given.

Conic Section - Sections of a cone : circles, ellipse, parabola, hyperbola, a point, a straight line and pair of intersecting lines as a degenerated case of a conic section. Standard equations and simple properties of parabola, ellipse and hyperbola, Standard equation of a circle.

Limits and Derivatives - Derivative introduced as rate of change both as that of distance function and geometrically, intuitive idea of limit. Definition of derivative, relate it to slope of tangent of the curve, derivative of sum, difference, product and quotient of functions. Derivatives of polynomial and trigonometric functions.

Monday Test : 21.11.16

Unit V December 1 to February 10

21 + 17 + 8 = 46 working days

Statistics - Measure of dispersion; mean deviation, variance and standard deviation of ungrouped/ grouped data. Analysis of frequency distributions with equal means but different variances.

Introduction to Three-dimensional Geometry - Coordinate axes and coordinate planes in three dimensions. Coordinates of a point. Distance between two points and section formula.

Probability - Random experiments : outcomes, samples space (set representation). Events : occurrence of events, 'not', 'and' and 'or' events, exhaustive events, mutually exclusive events. Axiomatic (set theoretic) probability, connections with the theories of earlier classes. Probability of an event, probability of 'not', 'and' & 'or' events.

Linear Inequalities - Linear inequalities. Algebraic solutions of linear inequalities in one variable and their representation on the number line. Graphic solution of linear inequalities in two variables. Solution of system of linear inequalities in two variables - graphically.

Principle of mathematical Induction - Processes of the proof by induction, motivating the application of the method by looking at natural numbers as the least inductive subset of real numbers. The principle of mathematical induction and simple applications.

Sets - Sets and their representations. Empty set. Finite and Infinite sets. Equal sets. Subsets. Subsets of the set of real numbers especially intervals (with notations). Power set. Universal set. Venn diagrams. Union and Intersection of sets. Difference of sets. Complement of a set.

Relations and Functions - Ordered pairs, Cartesian product of sets. Number of elements in the cartesian product of two finite sets. Cartesian product of the reals with itself (upto $\mathbb{R} \times \mathbb{R} \times \mathbb{R}$). Definition of relation, pictorial diagrams, domain, co-domain and range of a relation. Function as a special kind of relation from one set to another. Pictorial representation a function, domain, co-domain and range of a function. Real valued function of the real variable, domain and range of these functions, constant, identity, polynomial, rational, modulus, signum and greatest integer functions with their graphs. Sum, difference, product and quotients of functions.

Monday Test : 26.12.16

Second Semester Examination February 11 to February 23, 2017

SYLLABUS SCHEDULE FOR SESSION 2016-17

Biology

Class - XI

Unit I April 4 to May 16

18 + 11 = 29 working days

1. The Living world
2. Locomotion and Movement
3. Biological Classification
4. Neural control and Coordination

Practicals :

1. To study the organisms of Kingdoms Monera, Protista, Fungi and Lichens.
2. To study human bones and joints

Unit II July 1 to August 8

21 + 6 = 27 working days

6. Plant Kingdom
11. Cell cycle and cell division
12. Cell : The unit of life

Practicals :

1. To study plant specimens.
2. To study the various stages of mitosis

Unit III August 9 to September 16

14 + 11 = 25 working days

7. Structural Organisation in Animals
8. Excretory Products and their elimination.
9. Transport in Plants.
10. Mineral nutrition

Practicals :

1. To observe the microscopic structures of animal tissues
1. To demonstrate Osmosis by potato osmometer
2. To demonstrate plasmolysis and deplasmolysis in hypotonic and hypertonic solutions.

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Unit IV October 3 to November 30

14 + 21 = 35 working days

5. Chemical coordination and integration
13. Animal Kingdom
14. Biomolecules
15. Photosynthesis
16. Respiration

Practicals :

2. Study of animal specimens
2. To separate plant pigments by paper chromatography.

Unit V December 1 to February 10

21 + 17 + 8 = 46 working days

17. Morphology of Flowering Plants
18. Anatomy of flowering plants
19. Plant growth and development
20. Digestion and Absorption
21. Breathing and exchange of gases
22. Body fluids and Circulation.

Practicals :

3. To study plant tissues
1. Describe the given flowers.
2. To test for glucose, sucrose, starch proteins and fats in the food material.

Second Semester Examination February 11 to February 23, 2017

Weightage List – Biology Practicals

Time : 3 hrs.	Marks : 30
1. Experiments and Spotting	20 marks
2. Record of one investigatory Project and Viva based on Project	5 marks
3. Class record and viva based on experiments.	5 marks
Total 30 marks	

SYLLABUS SCHEDULE FOR SESSION 2016-17

English

Class - XI

Unit I April 4 to May 16

18 + 11 = 29 working days

- Hornbill** : 1. The Portrait of a Lady
2. A Photograph (Poem)
- Snapshots** : The Summer of the Beautiful White House
- Writing Skills** : 1. Note Making and Summary
2. Letter to the Editor
3. Notice
4. Speech
- Grammar** : Integrated

Unit II July 1 to August 8

21 + 6 = 27 working days

- Hornbill** : 1. We're not afraid to Die If We Can All be Together.
2. Discovering Tut : The Saga Continues
- Snapshots** : The Address
- Writing Skills** : 1. Classifieds
2. Letter of Enquiry
3. Letter of Complaint
- Grammar** : Integrated

Canterville Ghost : Chapter 1 and 2

Unit III August 9 to September 16

14 + 11 = 25 working days

- Hornbill** : 1. The Ailing Planet : The Green Movements Role.
2. The Voice of Rain (Poem)
- Snapshots** : 1. Ranga's Marriage
2. Albert Einstein At School
- Writing Skills** : 1. Classifieds
2. Report Writing
3. Factual Description
4. Debate
- Grammar** : Integrated

Canterville Ghost : Chapter 3 and 4

ASL

First Semester Examination September 17 to September 30, 2016

Unit IV October 3 to November 30

14 + 21 = 35 working days

- Hornbill** : Childhood
- Snapshots** : 1. Mother's Day
2. Birth
- Writing Skills** : 1. Classifieds
2. Letter Placing Order
3. Application to Heads of Institutes
4. Job Application
5. Article Writing
- Grammar** : Integrated

Canterville Ghost : Chapter 5 and 6

Unit V December 1 to February 10

21 + 17 + 8 = 46 working days

- Hornbill** : 1. The Browning Version
2. Father to Son
- Snapshots** : The Tale of Melon City
- Writing Skills** : Revision of all writing skills
- Grammar** : Integrated
- Canterville Ghost** : Chapter 7
- ASL

Second Semester Examination February 11 to February 23, 2017

SYLLABUS SCHEDULE FOR SESSION 2016-17

Informatics Practices

Class - XI

Unit I April 4 to May 16

18 + 11 = 29 working days

Chapter 8: Introduction to MySQL: State what a database is, Express the relationship between a database and table, Recognize different parts of a table like Row and Column, Define DBMS related terms like Primary key, Candidate key, Alternate key etc, List the functions of a DBMS, Write examples of popular DBMS software, State what is MySQL. Install MySQL in a computer.

Chapter 9: MySQL: State categories of SQL statements, Create a database, Create a table, Add rows to a table, Retrieve data in various ways from table using SELECT statement, Display data in a sorted way using ORDER BY clause, Modify data stored in a table, View structure of a table Modify structure of table Delete rows from a table

Unit II July 1 to August 8

21 + 6 = 27 working days

Chapter 10: Functions in MySQL: Distinguish between two types of functions, State the syntax and working of most of the Numeric, String and date/Time functions.

Chapter 1: Hardware Concepts: Understand functional units of computer, learn about various input devices, learn about various output devices, learn about secondary storage devices, understand data and instruction flow using communication buses and ports.

Unit III August 9 to September 16

14 + 11 = 25 working days

Chapter 2: Software Concepts & Productivity Tools: Understand the importance of binary language, appreciate the need and importance of an Operating System, identify different types of software - utility, general purpose application software, specific purpose application software and developer tools perform basic operations in word processor, spreadsheet tool, presentation tool and database tool differentiate between interpreter, compiler and assembler understand the various components of an Integrated Development Environment.

Chapter 3: Information Security and Social Networking: Co-create knowledge in collaboration, understand the threats to a computer system, learn about Virus, Worm, Trojan Horse and their effects on a computer system, use Anti-virus and other measures to protect computer, apply desktop security involving cookies and firewalls, understand about Cyber Crime and Cyber Police, learn about Social networking.

First Semester Examination September 17 to September 30, 2016

Unit IV October 3 to November 30

14 + 21 = 35 working days

Chapter 4: Getting Started with IDE Programming: Create a project, create a new form appreciate the concept and importance of a Graphical User Interface and an Integrated Development Environment, understand the need and use of components like Button, Text Field, Labels, Password Field, Text Area and Radio Buttons, add components to the form and change the properties of the components, attach code with components of the form develop small applications involving simple calculations with integers and decimal numbers.

Chapter 5: Programming Fundamentals: Declare, initialize and assign values to variables, write simple applications using variables, understand the concept and usage of different data types, appreciate the importance and usage of Arithmetic and Assignment operators, develop simple applications using different data types

Unit V December 1 to February 10

21 + 17 + 8 = 46 working days

Chapter 6: Control Structures: understand the concept and usage of selection and Iteration statements, appreciate the need and use of Relational and Logical operators, analyze the problem, decide and evaluate conditions, understand the need to use the Check Box, List and Combo Box components, design simple applications using the various selection control structures in an application, develop applications integrating GUI components and iterative control structures.

Chapter 7: Programming Guidelines: Appreciate the importance of understanding and analyzing a problem appropriately before beginning with the application development, understand about some of the GUI application guidelines, demonstrate efficient program development practices, be familiar with and understand the stages of application development, identify different types of errors.

Second Semester Examination February 11 to February 23, 2017

SYLLABUS SCHEDULE FOR SESSION 2016-17

Computer Science

Class - XI (C++)

Unit I April 4 to May 16

18 + 11 = 29 working days

- Ch. 1 Computer Overview :** Introduction, What is a computer, functioning of a computer, Evolution of computer, Generation of computer, Types of computer.
- Ch. 3 Data Representation :** Introduction, Digital Number System, Number Conversions, Binary Representation of Integers, Binary Representation of Real Numbers, Representing characters in Memory, ISCII, Unicode.
- Ch. 4 Input, Output and Memory Devices :** Introduction, Input, Output & Memory Devices, Input Devices, Output Devices, The Memory Devices, Ports.
- Ch. 6 Getting started with C++ :** Introduction, C++ Character Set, Tokens (Lexical Units), First look of C++ Program, Using I/O Operators, Typing and Executing Programs.

Unit II July 1 to August 8

21 + 6 = 27 working days

- Ch. 2 Working with Operating System :** Introduction, Introduction to windows operating system, Directory Structure of Windows OS, Explore your computer, Starting and closing programs, Managing file and folders, Creating shortcuts, Formatting Floppy Disk, Shutting down the computer, Types of software, Need of Operating System, Types of Services, Operating System's Functions, Processor Management, Storage Management, Information Management, Some commonly used OS.
- Ch. 7 Data Handling :** Introduction, Concept of Data Types, C++ Data Types, Variables, Formatting Output.
- Ch. 8 Operators and Expressions in C++ :** Introduction, Operators, Expressions, Assignment Statements, C++ shorthands.

Unit III August 9 to September 16

14 + 11 = 25 working days

- Ch. 5 General OOP Concepts :** Introduction, Evolution of software, Basic concept of OOP, Advantage and Disadvantage of OOP.
- Ch. 9 C++ as per latest C++ standard :** Introduction, keywords, fundamental data types - boolean type, character type, range of values.
- Ch. 10 Flow of Control :** Introduction, Statements, Statement Flow Control, Selection Statements, Iteration Statements, Jump Statements.

First Semester Examination September 17 to September 30, 2016

Unit IV October 3 to November 30

14 + 21 = 35 working days

- Ch. 11 Functions :** Introduction, Types of Functions, Function Definition, Accessing a Function, Returning from a Function, Scope Rules,
- Ch. 14 Programming Methodology :** Introduction, Stylistic Guidelines, Characteristics of a Good Program, Stages of Program Development Process, Robustness, Types of Errors, Problem solving Methodology and Techniques, Documentation, Program Maintenance.

Unit V December 1 to February 10

21 + 17 + 8 = 46 working days

- Ch. 12 Structured Data Type : Array -** Introduction, Need for Arrays, Types of Arrays, Array Initialization.
- Ch. 13 Structure :** Introduction, Structures, Referencing Structure Elements, Nested structure, Structure and Arrays, Passing structure to Function user defined data types, # Define preprocessor Directive.

Second Semester Examination February 11 to February 23, 2017

SYLLABUS SCHEDULE FOR SESSION 2016-17

Physics

Class - XI

Unit I April 4 to May 16

18 + 11 = 29 working days

Physical World and Measurement

Physics - scope of Physics nature of physical laws; Physics in technology and society.

Need for measurement : Units of measurement, systems of units, SI units, fundamental and derived units. Length, mass and time measurements; accuracy and precision of measuring instruments; errors in measurement; significant figures.

Dimensions of physical quantities, dimensional analysis and its applications.

Kinematics

Frame of reference. Motion in a straight line : Position-time graph, speed and velocity.

Uniform and non-uniform motion, average speed and instantaneous velocity.

Uniformly accelerated motion, velocity-time, position-time graphs, relations for uniformly accelerated motion (graphical treatment).

Elementary concepts of differentiation and integration for describing motion.

Scalar and vector quantities : Position and displacement vectors, general vectors and notation, equality of vectors, multiplication of vectors by a real number; addition and subtraction of vectors. Relative velocity.

Unit Vector, Resolution of a vector in a plane - rectangular components. Scalar product of vectors. Vector product of vectors.

Laws of Motion

Intuitive concept of force. Inertia, Newton's first law of motion; momentum and Newton's second law of motion; impulse; Newton's third law of motion.

Monday Test : 16.05.16

Unit II July 1 to August 8

21 + 6 = 27 working days

Motion in a plane

Cases of uniform velocity and uniform acceleration-projectile motion.

Friction

Concept of friction, laws of friction, angle of friction and angle of repose.

Circular motion : Centripetal force, examples of circular motion (vehicle on level circular road, vehicle on banked road). Motion in horizontal and vertical circle.

Centre of mass

Centre of mass of a two-particle system, Motion of centre of mass.

Monday Test : 08.08.16

First Semester Examination September 17 to September 30, 2016

Unit III August 9 to September 16

14 + 11 = 25 working days

Work, Energy and Power

Work done by a constant force and a variable force; kinetic energy, work-energy theorem, power.

Potential energy, potential energy stored in a spring, conservative forces, conservation of mechanical energy (kinetic and potential energies), non-conservative forces.

Conservation of linear momentum and collisions

Law of conservation of linear momentum and its applications, elastic and inelastic collisions in one and two dimensions, regular bodies and centre of mass motion. Centre of mass of a rigid body.

Monday Test : 29.08.16

Unit IV October 3 to November 30

14 + 21 = 35 working days

Rotation

Moment of a force, torque, angular momentum, conservation of angular momentum with some examples. Equilibrium of rigid bodies, rigid body rotation and equations of rotational motion, comparison of linear and rotational motions; moment of inertia, radius of gyration.

Calculation of moments of inertia for simple geometrical objects (no derivation). Statement of parallel and perpendicular axes theorems and their applications.

Gravitation

Keplar's laws of planetary motion, Universal law of gravitation, Acceleration due to gravity and its variation with altitude and depth.

Gravitational potential energy, gravitational potential. Escape velocity. Orbital velocity of a satellite. Geo-stationary satellites.

Mechanical Properteis of solids

Elastic behaviour, Stress-strain relationship, Hooke's law, Young's modulus, Bulk modulus, Modulus of rigidity, Poisson's ratio, Elastic energy.

Mechanical Properties of Fluids

Pressure due to a fluid column; Pascal's law and its applications (hydraulic lift and hydraulic brakes). Effect of gravity on fluid pressure.

Viscosity, Stokes' law, terminal velocity, Reynold's number, streamline and turbulent flow, Critical velocity, Bernoulli's theorem and its applications.

Surface energy and surface tension, angle of contact, application of surface tension ideas to drops, bubbles and capillary rise.

Monday Test : 28.11.16

Unit V December 1 to February 10

21 + 17 + 8 = 46 working days

Thermal Properties of matter

Heat, temperature, thermal expansion; specific heat - calorimetry; change of state - latent heat.

Heat transfer-conduction, convection and radiation, thermal conductivity, Wein's displacement law, Stefan's law, Newton's law of cooling.

Thermodynamics

Thermal equilibrium and definition of temperature (zeroth law of thermodynamics). Heat, work and internal energy. First law of thermodynamics.

Second law of thermodynamics, reversible and irreversible processes. Heat engines and refrigerators.

Behaviour of Perfect Gas and Kinetic Theory

Equation of state of a perfect gas, work done on compressing a gas.

Kinetic theory of gases - assumptions, concept of pressure. Kinetic energy and temperature; rms speed of gas molecules; degrees of freedom, law of equipartition of energy (statement only) and application to specific heat of gases; concept of mean free path, Avogadro's number.

Oscillations

Periodic motion - period, frequency, displacement as a function of time. Periodic functions. Simple harmonic motion (SHM) and its equation; phase; oscillations of a spring - restoring force and force constant; energy in SHM - kinetic and potential energies; simple pendulum - derivation of expression for its time period; free, forced and damped oscillations (qualitative ideas only), resonance.

Waves

Wave motion. Longitudinal and transverse waves, speed of wave motion. Displacement relation for a progressive wave. Principle of superposition of waves, reflection of waves, standing waves in strings and organ pipes, fundamental mode and harmonics, Beats, Doppler effect.

Monday Test : 16.01.2017

Second Semester Examination February 11 to February 23, 2017

SYLLABUS SCHEDULE FOR SESSION 2016-17

Chemistry

Class - XI

Unit I April 4 to May 16

18 + 11 = 29 working days

Some Basic Concepts of Chemistry

General Introduction : Importance and scope of chemistry.

Historical approach to particulate nature of matter, laws of chemical combination, Dalton's atomic theory: concept of elements, atoms and molecules.

Atomic and molecular masses. Mole concept and molar mass; percentage composition and empirical and molecular formula; chemical reactions, stoichiometry and calculations based on stoichiometry.

Structure of Atom

Discovery of electron, proton and neutron; atomic number, isotopes and isobars. Thompson's model and its limitations, Rutherford's model and its limitations, Bohr's model and its limitations, concept of shells and subshells, dual nature of matter and light, de Broglie's relationship, Heisenberg uncertainty principle, concept of orbitals, quantum numbers, shapes of s, p and d orbitals, rules for filling electrons in orbitals - Aufbau principle, Pauli exclusion principle and Hund's rule, electronic configuration of atoms, stability of half filled and completely filled orbitals.

Unit II July 1 to August 8

21 + 6 = 27 working days

Classification of Elements and Periodicity in Properties

Significance of classification, brief history of the development of periodic table, modern periodic law and the present form of periodic table, trends in properties of elements - atomic radii, ionic radii, inert gas radii, ionization enthalpy, electron gain enthalpy, electronegativity, valence.

Chemical Bonding and Molecular Structure

Valence electrons, ionic bond, covalent bond, bond parameters, Lewis structure, Polar character of covalent bond, covalent character of ionic bond, valence bond theory, resonance, geometry of covalent molecules, VSEPR theory, concept of hybridization involving s, p and d orbitals and shapes of some simple molecules, molecular orbital theory of homonuclear diatomic molecules (qualitative idea only). Hydrogen bond.

Unit III August 9 to September 16

14 + 11 = 25 working days

States of Matter : gases and liquids

Three states of matter. Intermolecular interactions, type of bonding, melting and boiling points. Role of gas laws in elucidating the concept of the molecules, Boyle's law, Charles's law, Gay Lussac's law, Avogadro's law, Ideal behaviour, empirical derivation of gas equation, Avogadro's number, Ideal gas equation. Deviation from ideal behaviour, liquefaction of gases, critical temperature.

Liquid State - Vapour pressure, viscosity and surface tension (qualitative idea only, no mathematical derivations).

Redox Reactions

Concept of oxidation and reduction, redox reactions, oxidation number, balancing redox reactions, applications of redox reactions.

Practical :

- * Using a chemical balance.
- * Preparation of standard solution of oxalic acid.
- * Determination of strength of a given solution of sodium hydroxide by titrating it against standard solution of oxalic acid.

First Semester Examination September 17 to September 30, 2016

Unit IV October 3 to November 30

14 + 21 = 35 working days

Thermodynamics

Concepts of system, types of systems, surroundings, work, heat, energy, extensive and intensive properties, state functions.

First law of thermodynamics - internal energy and enthalpy, heat capacity and specific heat, measurement of ΔU and ΔH , Hess's law of constant heat summation, enthalpy of : bond dissociation, combustion, formation, atomization, sublimation, phase transition, ionization and dilution.

Introduction of entropy as a state function, free energy change for spontaneous and non-spontaneous process, equilibrium.

Equilibrium

Equilibrium in physical and chemical processes, dynamic nature of equilibrium, law of mass action, equilibrium constant, factors affecting equilibrium - Le Chatelier's principle; ionic equilibrium - ionization of acids and bases, strong and weak electrolytes, degree of ionization, concept of pH. Hydrolysis of salts (elementary idea), buffer solutions, solubility product, common ion effect (with illustrative examples).

Organic Chemistry - Some Basic principles and Techniques

General introduction, methods of purification, qualitative and quantitative analysis, classification and IUPAC nomenclature of organic compounds.

Electronic displacements in a covalent bond : inductive effect, electromeric effect, resonance and hyper conjugation.

Homolytic and heterolytic fission of a covalent bond : free radicals, carbocations, carbonions; electrophiles and nucleophiles, types of organic reactions.

Practical :

- * Characterization and purification of chemical substances.
- * Crystallization of impure samples of Alum, Copper sulphate, Mohr's salt.
- * Detection of nitrogen, sulphur, Chlorine, Bromine and iodine in an organic compound.

Unit V December 1 to February 10

21 + 17 + 8 = 46 working days

Hydrocarbons

Classification of hydrocarbons

Alkanes - Nomenclature, isomerism, conformations (ethane only), physical properties, chemical reactions including free radical mechanism of halogenation, combustion and pyrolysis.

Alkenes - Nomenclature, structure of double bond (ethene), geometrical isomerism, physical properties, methods of preparation; chemical reactions : addition of hydrogen, halogen, water, hydrogen halides (Markovnikov's addition and peroxide effect), ozonolysis, oxidation, mechanism of electrophilic addition.

Alkynes - Nomenclature, structure of triple bond (ethyne), physical properties, methods of preparation, chemical reactions : acidic character of alkynes, addition reaction of - hydrogen, halogens, hydrogen halides and water.

Aromatic hydrocarbons : Introduction, IUPAC nomenclature; Benzene : resonance, aromaticity; chemical properties : mechanism of electrophilic substitution - nitration sulphonation, halogenation, Friedel Craft's alkylation and acylation; directive influence of functional group in mono-substituted benzene ; carcinogenicity and toxicity.

Hydrogen

Position of hydrogen in periodic table, occurrence, isotopes, preparation, properties and uses of hydrogen; hydrides - ionic, covalent and interstitial; physical and chemical properties of water, heavy water; hydrogen peroxide-preparation, reactions and structure; hydrogen as a fuel.

s-Block Elements (Alkali and Alkaline earth metals)

Group 1 and Group 2 elements : General introduction, electronic configuration, occurrence, anomalous properties of the first element of each group, diagonal relationship, trends in the variation of properties (such as ionization enthalpy, atomic and ionic radii), trends in chemical reactivity with oxygen, water hydrogen and halogens; uses.

Preparation and properties of some important compounds : Sodium carbonate, sodium chloride, sodium hydroxide and sodium-hydrogen carbonate, biological importance of sodium and potassium.

CaO, CaCO₃ and industrial use of lime and limestone, biological importance of Mg and Ca.

Some p-Block Elements

General Introduction to p-Block Elements

Group 13 elements : General introduction, electronic configuration, occurrence, variation of properties, oxidation states, trends in chemical reactivity, anomalous properties of first element of the group; Boron-physical and chemical properties, some important compounds : borax, boric acid, boron hydrides,. Aluminium : uses, reactions with acids and alkalis.

Group 14 elements : General introduction, electronic configuration, occurrence, variation of properties, oxidation states, trends in chemical reactivity, anomalous behaviour of first element. Carbon-catenation, allotropic forms, physical and chemical properties; uses of some important compounds : oxides.

Important compounds of silicon and a few uses : silicon tetrachloride, silicones, silicates and zeolites.

Environmental Chemistry

Environmental pollution - air, water and soil pollution, chemical reaction in atmosphere, smogs, major atmospheric pollutants; acid rain, ozone and its reactions, effects of depletion of ozone layer, green house effect and global warming - pollution due to industrial wastes; green chemistry as an alternative tool for reducing pollution, strategy for control of environmental pollution.

Practical :

* Qualitative Analysis

* Determination of one anion and one cation in a given salt.

Cations : Pb²⁺, Cu²⁺, As³⁺, Al³⁺, Fe³⁺, Mn²⁺, Ni²⁺, Zn²⁺, Co²⁺, Ca²⁺, Sr²⁺, Ba²⁺, Mg²⁺, NH₄⁺

Anions : CO₃²⁻, S²⁻, SO₃²⁻, NO₂⁻, Cl⁻, Br⁻, I⁻, PO₄³⁻, C₂O₄²⁻, CH₃COO⁻

Second Semester Examination February 11 to February 23, 2017

SYLLABUS SCHEDULE FOR SESSION 2016-17

History Syllabus

Class - XI

Unit I April 4 to May 16

18 + 11 = 29 working days

Theme 1 : From the beginning of Time.

Theme 2 : Writing and City Life

Theme 3 : An Empire Across Three Continents

Monday Test : 16.05.16

Syllabus : Theme 1, 2

Unit II July 1 to August 8

21 + 6 = 27 working days

Theme 4 : The Central Islamic Lands

Theme 5 : Nomadic Empires

Monday Test : 08.08.16

Syllabus : Theme 4

Unit III August 9 to September 16

14 + 11 = 25 working days

Theme 6 : The Three Orders

Monday Test : 29.08.16

Syllabus : Theme 5

First Semester Examination September 17 to September 30, 2016

Syllabus : Theme 1, 2, 3, 4, 5, 6

Unit IV October 3 to November 30

14 + 21 = 35 working days

Theme 7 : Changing Cultural Traditions

Theme 8 : Confrontation of Cultures

Theme 9 : The Industrial Revolution

Project Work

Monday Test : 28.11.16

Syllabus : Theme 7, 8

Unit V December 1 to February 10

21 + 17 + 8 = 46 working days

Theme 10 : Displacing Indigenous peoples

Theme 11 : Paths to Modernisation

Monday Test : 28.11.16

Syllabus : Theme 10

Second Semester Examination February 11 to February 23, 2017

Syllabus : Theme 7, 8, 9, 10, 11

SYLLABUS SCHEDULE FOR SESSION 2016-17

Political Science

Class - XI

Books : Indian Constitution at Work - NCERT

Political Theory – NCERT

Unit I April 4 to May 16

18 + 11 = 29 working days

Book : Indian Constitution at Work.

Chap. 1 Constitution : Why and How?

Chap. 2 Rights in the Indian Constitution.

Chap. 3 Election and Representation Part -I

Weekly Test : 02.05.16

Syllabus :

Chap. 1 Constitution : Why and How?

Chap. 2 Rights in the Indian Constitution.

Unit II July 1 to August 8

21 + 6 = 27 working days

Chap. 3 Election and Representation Part -II

Chap. 4 Executive

Chap. 5 Legislature

Weekly Test : 25.07.16

Chap. 3 Election and Representation

Chap. 4 Executive

Unit III August 9 to September 16

14 + 11 = 25 working days

Chap. 6 Judiciary

Chap. 7 Federalism

Chap. 8 Local Governments

Chap. 9 Constitution as a Living Document.

Weekly Test : 16.08.16

Syllabus :

Chap. 4 Executive

Chap. 5 Legislature

First Semester Examination September 17 to September 30, 2016

Unit IV October 3 to November 30

14 + 21 = 35 working days

Chap. 10 The Philosophy of the Constitution.

Book : Political Theory

Chap. 1 Political Theory

Chap. 2 Freedom

Chap. 3 Equality

Chap. 4 Social Justice

Weekly Test : 15.11.16

Syllabus :

Chap. 10 The Philosophy of the Constitution.

Chap. 1 Political Theory

Chap. 2 Freedom - Part - I

Unit V December 1 to February 10

21 + 17 + 8 = 46 working days

Chap. 5 Rights

Chap. 6 Citizenship

Chap. 7 Nationalism

Chap. 8 Secularism

Chap. 9 Peace

Chap. 10 Development

Weekly Test : 19.12.17

Syllabus :

Chap. 2 Freedom - Part-II

Chap. 3 Equality

Revision : January 24 to February 10, 2016

Second Semester Examination February 11 to February 23, 2017

SYLLABUS SCHEDULE FOR SESSION 2016-17

Entrepreneurship

Class - XI

Unit I April 4 to May 16

18 + 11 = 29 working days

Chapter-1: Entrepreneurship : Concept and Functions

- Concept, functions, need and importance of entrepreneurship
- Myths about Entrepreneurship
- Pros and cons of Entrepreneurship
- Process of Entrepreneurship

Chapter - 2: An Entrepreneur

- Types of Entrepreneurs
- Entrepreneurial value

Unit II July 1 to August 8

21 + 6 = 27 working days

Chapter - 2: An Entrepreneur (Contd.)

- Mindset of an Employee and An Entrepreneur- Difference
- Intrapreneur : Importance

Chapter - 3: Entrepreneurial Journey

- Self assessment of Qualities, Skills, Resources
- Generation of Ideas
- Business Plan Preparation and Execution
- Role of society and challenges faced by women in Entrepreneurship.

Unit III August 9 to September 16

14 + 11 = 25 working days

Chapter - 4 : Entrepreneurship as Innovation and Problem solving

- Entrepreneurs - as problem solvers
- Innovations and Social Entrepreneurship
- Risk taking - concept, types of business risks
- Barriers to Entrepreneurship

First Semester Examination September 17 to September 30, 2016

Unit IV October 3 to November 30

14 + 21 = 35 working days

Chapter - 5 : Concept of the Market

- Market - Traditional and e-commerce - Concept and Role
- Types of Business and Market forces
- Marketing Mix
- Market survey
- Pricing and factors affecting price

Chapter -6 : Business Finance and Arithmetic

- Simplified cash register and record keeping

- Unit of sale, unit price and unit cost
- Income statement

Unit V December 1 to February 10

21 + 17 + 8 = 46 working days

Ch. Business Finance and Arithmetic (contd.)

- Cash flow projections
- Break Even Analysis

Chapter - 7: Resource Mobilization

- Types of Resources
- Role and Importance of a Mentor
- Estimating Financial Resources
- Various sources of Information
- Classification of business enterprises

Project Work :

- a. Case study on the Entrepreneurial journey of an entrepreneur.
- d. Power Point presentation on related topics.

Second Semester Examination February 11 to February 23, 2017

SYLLABUS SCHEDULE FOR SESSION 2016-2017

Physical Education

CLASS : XI

Unit I April 4 to May 16

18 + 11 = 29 working days

Chapter 1 Test and Measurement in Sports

- Define Test and Measurement.
- Importance of Test and Measurement in Sports.
- Calculation of BMI and Waist - Hip Ratio.
- Somato Types (Endomorphy, Mesomorphy and Ectomorphy)
- Procedures and Anthropometric Measurement - Height, Weight, Arm and Leg Length and Skinfold.

Chapter 2 Biomechanics and sports

- Meaning and Importance of Biomechanics in Physical Education and Sports.
- Newton's Law of Motion and their Application in Sports.
- Levers and its Types and its Application in Sports.
- Equilibrium - Dynamic and Stability and Centre of Gravity and its Application in Sports.
- Force - Centrifugal and Centripetal : Their Application in Sports.

Unit II July 1 to August 8

21 + 6 = 27 working days

Chapter 3 Psychology and Sports

- Definition and Importance of Psychology in Physical Education and Sports.
- Define and Differentiate Between 'Growth and Development'.
- Stages of Growth and Development.
- Adolescent Problems and Their management.
- Define Learning, Laws of Learning and Transfer of Learning.

Chapter 4 Training in Sports

- Meaning and Concept of Sports Training.
- Principles of Sports Training.
- Warming up and Limbering Down.
- Load, Adaptation and Recovery.
- Skill, Technique and Style.

First Semester Examination September 17 to September 30, 2016

Unit III August 9 to September 16

14 + 11 = 25 working days

Chapter 5 Biomechanics and Sports

- Projectile and factors affecting Projectile Trajectory
- Angular and Linear Movements
- Introduction to Work, Power and Energy 372
- Friction

- Mechanical Analysis of Walking and Running

Chapter 6 Test and Measurement in Sports

- Measurement of Muscular Strength - Kraus Weber Test.
- Motor Fitness Test - AAPHER
- Measurement of Cardio Vascular Fitness - Harward Step Test / Rockfort Test
- Measurement of Flexibility - Sit and Reach Test
- Rikli and Jones - Senior Citizen Fitness Test
 1. Chair Stand Test for lower body strength
 2. Arm Curl test for upper body strength
 3. Chair Sit and Reach test for lower body flexibility
 4. Back Scratch test for upper body flexibility
 5. Eight Foot Up and Go test for agility
 6. Six minute walk test for Aerobic Endurance

Unit IV October 3 to November 30

14 + 21 = 35 working days

Chapter 7 Psychology and Sports

- Understanding stress, anxiety and its management
- Coping Strategies - Problem Focused and Emotional focused
- Personality, its dimensions and types; Role of sports in personality development
- Motivation, its type and technique
- Self esteem and Body image

Chapter 8 Training in Sports

- Strength - Definition, types and methods of improving strength - Isometric, Isotonic and Isokinetic.
- Endurance - Definition, types and methods to develop Endurance - Continuous Training, Interval Training and Fartlek Training
- Speed - Definition, types and methods to develop speed - Acceleration run and pace run
- Flexibility - Definition, types and methods to improve flexibility
- Coordinative abilities - Definition and types

Unit V December 1 to February 10

21 + 17 + 8 = 46 working days

- Revision

Second Semester Examination February 11 to February 23, 2017

SYLLABUS SCHEDULE FOR SESSION 2016-2017

FRENCH

CLASS : XI

Text Book : Cours de langue et la civilisation française - II

Unit I April 4 to May 16

18 + 11 = 29 working days

Leçon 1 to 5

1. Traduction de la leçon.
2. Compréhension
3. Ecrivez une composition
Mon voyage, Les rivières, Mon village
Automobile et chauffeurs.
4. Ecrivez l'histoire
Grammaire : Passif, Pluriel des noms composés, Préposition de lieu.

Unit II July 1 to August 8

21 + 6 = 27 working days

Leçon 5 to 10

1. Traduction de la leçon.
2. Compréhension
3. Ecrivez une composition
4. Ecrivez l'histoire avec les éléments donnés.
Grammaire : Subjonctif, l'adjectif, le passif du subjonctif

Unit III August 9 to September 16

14 + 11 = 25 working days

Leçon 10 to 15

1. Compréhension
2. Traduction de la leçon.
3. Ecrivez une composition
Animaux, Les fleurs et les arbres
4. Ecrivez une lettre informelle.
Grammaire : Passé simple, Passé antérieur, Les adjectifs.

First Semester Examination September 17 to September 30, 2016

Unit IV October 3 to November 30

14 + 21 = 35 working days

Leçon 15 to 17

1. Compréhension
2. Traduction de la leçon.
3. Ecrivez une composition
Les routes, Les jeux écoliers, la vie des étudiants.
4. Ecrivez une histoire avec les éléments donnés.
Grammaire : Pronoms relatifs simple / composé, Le participe, Adjectifs interrogatifs.

Unit V December 1 to February 10

21 + 17 + 8 = 46 working days

1. Une consultation chez le médecin de campagne.
2. L'Attente
3. Un monsieur bien amusant
4. la poupée vivante
5. les enfants dans le jardin public

Second Semester Examination February 11 to February 23, 2017

SYLLABUS SCHEDULE FOR SESSION 2016-2017

PSYCHOLOGY

CLASS : XI

Unit I April 4 to May 16

18 + 11 = 29 working days

Chapter-1 : What is psychology?

- * Psychology as a discipline.
- * Understanding mind and behaviour.
- * Evolution of psychology.
- * Branches of psychology.
- * Development of psychology in India.
- * Psychology and other disciplines.
- * Psychology in everyday life.

Chapter -4 : Human Development.

- * Meaning of development.
- * Factors influencing development.
- * Context of development.
- * Developmental stages.
- * Infancy - old age.

Project : Observing other people.

Practicals : Effects of knowledge of results.

Unit II July 1 to August 8

21 + 6 = 27 working days

Chapter-2 : Methods of enquiry in psychology.

- * Goals of psychological enquiry.
- * Steps in conducting scientific research.
- * Nature of psychological data.
- * Methods of enquiry.
- * Limitations of psychological enquiry.
- * Ethical issues.

Chapter -3 : The bases of human behaviour.

- * Evolutionary perspective
- * Biological and cultural basis.
- * Structure and function of the nervous system.
- * Endocrine system.
- * Heredity - genes and chromosomes.
- * Socio - Cultural basis.

Project : With the help of experimental method design an experiment.

Practicals : Effect of meaningfulness on retention.

First Semester Examination September 17 to September 30, 2016

Unit III August 9 to September 16

14 + 11 = 25 working days

Chapter - 5: Sensory, Attentional & Perceptual Processes.

- * Nature and Varieties of stimulus.

- * Sense modalities.
- * Attentional processes.
- * Perceptual processes.
- * Illusions.
- * Socio - Cultural influences.

Chapter - 6 : Learning

- * Nature of learning.
- * Classical conditioning
- * Operant conditioning
- * Observational learning
- * Factors affecting learning
- * Learning Disabilities.

Project : Ways in which your parents and teachers reinforce your behaviour. Relate these to the concepts taught in class.

Practicals : Span of attention.

Unit IV October 3 to November 30

14 + 21 = 35 working days

Chapter - 7 : Human Memory.

- * Nature of memory.
- * Information processing approach.
- * The Stage Model.
- * Levels of processing.
- * Types of Long term Memory.
- * Nature and causes of forgetting.
- * Enhancing Memory.

Chapter - 8 : Thinking.

- * Nature of thinking.
- * Process of thinking.
- * Problem Solving.
- * Reasoning
- * Decision making.
- * Nature and process of creative thinking.
- * Thought and language.

Chapter - 9 : Motivation and Emotion.

- * Nature of Motivation and emotion.
- * Types of motives.
- * Maslows Hierarchy of Needs.
- * Physiological, Cognitive, Cultural bases of emotion.
- * Managing Negative emotion.
- * Enhancing positive emotion.

Practicals : Memory span.

Unit V December 1 to February 10

21 + 17 + 8 = 46 working days

Second Semester Examination February 11 to February 23, 2017