

SUBJECT - HISTORY

MONTH	BOOK	CHAPTERS
April	1	1. Bricks, Beads, and Bones
May	1	2. Kings, Farmers, and Towns
	1	3. Kingship, Caste and class
July	1	4. Thinkers, Beliefs and buildings
	2	5. Through the eyes of Travellers
August	2	6. Bhakti-Sufi Traditions
UNIT TEST - 1	1	Chap 1 and 2
August	2	7. An Imperial Capital: Vijayanagar
September	2	8. Peasants, Zamindars and the Sate
HALF YEARLY EXAMINATION		CHAPTERS 1-7
October	3	10. Colonialism and the countryside
	Project Work in History	
November	3	11. Rebels and the Raj 13. Mahatma Gandhi and the National Movement
December	3	15. Framing the constitution
DECEMBER (1st PRE BOARD)		FULL SYLLABUS
JANUARY (2nd PRE BOARD)		FULL SYLLABUS

**English Core
Syllabus Breakup- 2024-2025
Class 12**

APRIL

The Last Lesson (F)
My Mother at Sixty Six (F)
Lost Spring (F)

MAY

Deep Water (F)
The Third Level (V)
Tiger King (V)
Notice Writing (AWS)

JULY

The Rattrap (F)
Keeping Quiet (F)
Journey to the End of the Earth (V)

AUGUST

Invitations (AWS)
Indigo (F)

Poets and Pancakes (F)

The Enemy(V)

SEPTEMBER

The Interview (F)

A Thing of Beauty (F)

ASL(Both Listening and Speaking)

OCTOBER

A Roadside Stand (F)

Replies to Invitation (AWS)

Job Application (AWS)

Report Writing(AWS)

Business Letters (AWS)

Any Other Writing Format as may be set by CBSE

NOVEMBER

Going Places (F)

Aunt Jennifer' s Tigers (F)

On the Face of It(V)

Memories of Childhood (V)

DECEMBER

English Project Work & Art Integration + Viva Voce

Revision & Discussion of Board Papers

1ST UNIT TEST: ALL CHAPTERS & AWS COMPLETED TILL May

HALF- YEARLY EXAM: EVERYTHING COMPLETED TILL SEPTEMBER

PRE- BOARDS : THE ENTIRE SYLLABUS

Abbreviations Used

(F) =. Flamingo

(V) = Vistas

(AWS) = Advanced Writing Skills

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Maharshi Patanjali Vidya Mandir, Prayagraj
Syllabus Breakup : 2024- 25
Subject : Psychology
Class- XII

MONTH		
April	Chapter -1 Variations in Psychological Attributes: Intelligence	Practical-1 Intelligence: Progressive Matrices
May	Chapter - 2 Self and Personality	Introduction to the Case Study

UNIT TEST-1		CHAPTERS 1-2
July	Chapter - 3 Meeting Life Challenges	Practical- 2
August	Chapter- 4 Psychological Disorders	Case – Study
September	Chapter- 5 Therapeutic Approaches	Practical - 3
HALF YEARLY EXAMINATION		CHAPTERS 1-5
October	Chapter-6 Attitude and Social Cognition	Practical - 4
November	Chapter- 7 Social Influence and Group Processes	Practical - 5 Case Study
December	Full Syllabus	Pre-Board - 1
January	Full Syllabus	Pre -Board -2

MAHARSHI PATANJALI VIDYA MANDIR, PRAYAGRAJ
SYLLABUS BREAKUP: 2024-2025
SUBJECT: COMPUTER SCIENCE
CLASS - XII

MONTH	CHAPTER	TOPICS
	REVISION OF PYTHON BASICS	REVISION OF PYTHON TOPICS COVERED IN CLASS XI.
APRIL	TEXT FILE HANDLING	INTRODUCTION TO FILES, TYPES OF FILES (TEXT FILE, BINARY FILE, CSV FILE), RELATIVE AND ABSOLUTE PATHS TEXT FILE: OPENING A TEXT FILE, TEXT FILE OPEN MODES (R, R+, W, W+, A, A+), CLOSING A TEXT FILE, OPENING A FILE USING WITH CLAUSE, WRITING/APPENDING DATA TO A TEXT FILE USING WRITE() AND WRITELINES(), READING FROM A TEXT FILE USING READ(), READLINE() AND READLINES(), SEEK AND TELL METHODS, MANIPULATION OF DATA IN A TEXT FILE
MAY	BINARY FILE HANDLING	BASIC OPERATIONS ON A BINARY FILE: OPEN USING FILE OPEN MODES (RB, RB+, WB, WB+, AB, AB+), CLOSE A BINARY FILE, IMPORT PICKLE MODULE, DUMP() AND LOAD() METHOD, READ, WRITE/CREATE, SEARCH, APPEND AND UPDATE OPERATIONS IN A BINARY FILE EXCEPTION HANDLING: INTRODUCTION, HANDLING EXCEPTIONS USING TRY-EXCEPT-FINALLY BLOCKS

JULY	CSV FILE HANDLING	IMPORT CSV MODULE, OPEN / CLOSE CSV FILE, WRITE INTO A CSV FILE USING CSV.WRITER() AND READ FROM A CSV FILE USING CSV.READER()
AUGUST	FUNCTIONS	TYPES OF FUNCTION (BUILT-IN FUNCTIONS, FUNCTIONS DEFINED IN MODULE, USER DEFINED FUNCTIONS), CREATING USER DEFINED FUNCTION, ARGUMENTS AND PARAMETERS, DEFAULT PARAMETERS, POSITIONAL PARAMETERS, FUNCTION RETURNING VALUE(S), FLOW OF EXECUTION, SCOPE OF A VARIABLE (GLOBAL SCOPE, LOCAL SCOPE)
SEPTEMBER	DATA STRUCTURE	STACK, OPERATIONS ON STACK (PUSH & POP), IMPLEMENTATION OF STACK USING LIST.
OCTOBER	DATABASE CONCEPTS	INTRODUCTION TO DATABASE CONCEPTS AND ITS NEED
	RELATIONAL DATA MODEL	RELATION, ATTRIBUTE, TUPLE, DOMAIN, DEGREE, CARDINALITY, KEYS (CANDIDATE KEY, PRIMARY KEY, ALTERNATE KEY, FOREIGN KEY)
	STRUCTURED QUERY LANGUAGE – PART I	INTRODUCTION, DATA DEFINITION LANGUAGE AND DATA MANIPULATION LANGUAGE, DATA TYPE (CHAR(N), VARCHAR(N), INT, FLOAT, DATE), CONSTRAINTS (NOT NULL, UNIQUE, PRIMARY KEY), CREATE DATABASE, USE DATABASE, SHOW DATABASES, DROP DATABASE, SHOW TABLES, CREATE TABLE, DESCRIBE TABLE, ALTER TABLE (ADD AND REMOVE AN ATTRIBUTE, ADD AND REMOVE PRIMARY KEY), DROP TABLE.
NOVEMBER	STRUCTURED QUERY LANGUAGE – PART II	INSERT, DELETE, SELECT, OPERATORS (MATHEMATICAL, RELATIONAL AND LOGICAL), ALIASING, DISTINCT CLAUSE, WHERE CLAUSE, IN, BETWEEN, ORDER BY, MEANING OF NULL, IS NULL, IS NOT NULL, LIKE, UPDATE COMMAND, DELETE COMMAND, AGGREGATE FUNCTIONS (MAX, MIN, AVG, SUM, COUNT), GROUP BY, HAVING CLAUSE, JOINS: CARTESIAN PRODUCT ON TWO TABLES, EQUI-JOIN AND NATURAL JOIN

	INTERFACE OF PYTHON WITH AN SQL DATABASE.	CONNECTING SQL WITH PYTHON, PERFORMING INSERT, UPDATE, DELETE QUERIES USING CURSOR, DISPLAY DATA BY USING CONNECT(), CURSOR(), EXECUTE(), COMMIT(), FETCHONE(), FETCHALL(), ROWCOUNT, CREATING DATABASE CONNECTIVITY APPLICATIONS, USE OF %S FORMAT SPECIFIER OR FORMAT() TO PERFORM QUERIES
DECEMBER	EVOLUTION OF NETWORKING	INTRODUCTION TO COMPUTER NETWORKS, EVOLUTION OF NETWORKING (ARPANET, NSFNET, INTERNET)
	DATA COMMUNICATION TERMINOLOGIES	CONCEPT OF COMMUNICATION, COMPONENTS OF DATA COMMUNICATION (SENDER, RECEIVER, MESSAGE, COMMUNICATION MEDIA, PROTOCOLS), MEASURING CAPACITY OF COMMUNICATION MEDIA (BANDWIDTH, DATA TRANSFER RATE), IP ADDRESS, SWITCHING TECHNIQUES (CIRCUIT SWITCHING, PACKET SWITCHING)
	TRANSMISSION MEDIA	WIRED COMMUNICATION MEDIA (TWISTED PAIR CABLE, CO-AXIAL CABLE, FIBER-OPTIC CABLE), WIRELESS MEDIA (RADIO WAVES, MICRO WAVES, INFRARED WAVES)
	NETWORK DEVICES	MODEM, ETHERNET CARD, RJ45, REPEATER, HUB, SWITCH, ROUTER, GATEWAY, WIFI CARD
	NETWORK TOPOLOGIES AND NETWORK TYPES	TYPES OF NETWORKS (PAN, LAN, MAN, WAN), NETWORKING TOPOLOGIES (BUS, STAR, TREE)
	NETWORK PROTOCOL	HTTP, FTP, PPP, SMTP, TCP/IP, POP3, HTTPS, TELNET, VOIP
	INTRODUCTION TO WEB SERVICES:	WWW, HYPER TEXT MARKUP LANGUAGE (HTML), EXTENSIBLE MARKUP LANGUAGE (XML), DOMAIN NAMES, URL, WEBSITE, WEB BROWSER, WEB SERVERS, WEB HOSTING
	FINAL PROJECT	

UNIT TEST – I	REVISION OF PYTHON BASICS, TEXT FILE HANDLING
HALF YEARLY EXAMINATION	REVISION OF PYTHON BASICS, TEXT FILE HANDLING, BINARY FILE HANDLING, CSV FILE HANDLING, FUNCTIONS, DATA STRUCTURE
PREBOARD EXAMINATION	WHOLE SYLLABUS

MAHARSHI PATANJALI VIDYA MANDIR, PRAYAGRAJ
SYLLABUS BREAKUP: 2024 - 2025
SUBJECT: COMPUTER SCIENCE (PRACTICAL)
CLASS - XII

MONTH	CHAPTER
APRIL - SEPTEMBER	<ul style="list-style-type: none"> • REVISION OF PYTHON BASICS • TEXT FILE HANDLING • BINARY FILE HANDLING • CSV FILE HANDLING • FUNCTIONS • DATA STRUCTURES
OCTOBER - DECEMBER	<ul style="list-style-type: none"> • STRUCTURED QUERY LANGUAGE – PART I • STRUCTURED QUERY LANGUAGE – PART II • INTERFACE OF PYTHON WITH AN SQL DATABASE.

MAHARSHI PATANJALI VIDYA MANDIR, PRAYAGRAJ
SYLLABUS BREAKUP: 2024 - 2025
SUBJECT: COMPUTER SCIENCE (PRACTICAL)
CLASS - XII

MONTH	Topics	PRACTICAL
APRIL	PYTHON PROGRAMMING	<ol style="list-style-type: none"> 1. Read a text file line by line and display each word separated by a #. 2. Read a text file and display the number of vowels/consonants/uppercase/lowercase characters in the file.
MAY		

JULY		<ol style="list-style-type: none"> 3. Remove all the lines that contain the character 'a' in a file and write it to another file. 4. Create a binary file with name and roll number. Search for a given roll number and display the name, if not found display appropriate message. 5. Create a binary file with roll number, name and marks. Input a roll number and update the marks. 6. Create a CSV file by entering user-id and password, read and search the password for given user-id. 7. Write a random number generator that generates random numbers between 1 and 6 (simulates a dice). 8. Write a Python program to implement a Stack using list.
AUGUST		
SEPTEMBER		
OCTOBER	DATABASE MANAGEMENT	<ol style="list-style-type: none"> 1. Create a student table and insert data. Implement the following SQL commands on the student table: <ul style="list-style-type: none"> • ALTER table to add new attributes / modify data type / drop attribute • UPDATE table to modify data • ORDER BY to display data in ascending / descending order • DELETE to remove tuple(s) • GROUP BY and find the min, max, sum, count and average 2. Similar exercise for other cases. 3. Integrate SQL with Python by importing suitable module.
NOVEMBER		
DECEMBER	FINAL PROJECT	

SYLLABUS BREAK UP

CLASS XII

ECONOMICS

SESSION-2024-25

MONTH	BOOK	CHAPTERS
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April	Macroeconomics	1) Introduction To Macroeconomics 2) Circular Flow Of income 3) Measurement of N.I.
May	Indian Economic Development	1) Introduction to Indian Economy 2) Five Year Plans
	Macroeconomics	3) Measurement Of N.I Practice doing Numerical.(Continued)
July	Macroeconomics	4) Money And Banking Meaning and supply of money, currency held by the public and net demand deposits held by commercial banks. Money creation, Central bank and its functions.
	Indian Economic Development	3 Growth and development of Agriculture, Industry and foreign trade 4) Economic reforms since 1991
UNIT TEST-1	MACROECONOMICS	CHAPTERS 1-3
	INDIAN ECONOMIC DEVELOPMENT	CHAPTERS 1-3
August	Indian Economic Development Macroeconomics	5) Rural Development 6) Human Capital formation 5)Determination of Income and Employment.

September	Macroeconomics	5) Determination of Income And Employment Continued.	
HALF YEARLY EXAMINATION	MACROECONOMICS	CHAPTERS 1-5	
	INDIAN ECONOMIC DEVELOPMENT	CHAPTERS 1-6	
October	Indian Economic	7) Employment	
	Macroeconomics	6) Government Budget	
November	Project Work in Economics		
November	Indian Economic Development	8) Environment and Sustainable Development Meaning, effects of economic development on resources and environment including global warming	
	Macroeconomics	7) Balance Of Trade And Balance of Payments Meaning and components 8) Foreign exchange rate – meaning of fixed and flexible rates and managed floating	
December	Indian Economic Development	9) Development Experience Of India with neighbours	
	Macroeconomics	8) Foreign Exchange Rate(Continued)	

DECEMBER(1 st PRE BOARD)		FULL SYLLABUS
January(2 nd PRE BOARD)		FULL SYLLABUS

Maharshi Patanjali Vidya Mandir, Prayagraj
Syllabus : 2025-25
Subject : Biology
Class - XII

Month	Topics to be covered
April	Unit VII- Genetics and Evolution Principles of Inheritance and Variations
May	Molecular Basis of Inheritance
July	Unit VI- Reproduction Sexual Reproduction in Flowering Plants Human Reproduction
August	Reproductive health Unit X- Ecology Organisms and Populations Ecosystem
September	Biodiversity and conservation Unit VIII- Biology in Human Welfare Human Health and Disease
October	Microbes in Human Welfare Unit VII- Genetics and Evolution Evolution
November	Unit IX- Biotechnology Biotechnology: Principles and Processes Biotechnology and its Applications

Unit Test - I	Chapter 4,5
Half Yearly	Chapter 1,2,3,4,5,11,12
Pre – Board	All chapters

Practical -
List of Experiments

- 1.Prepare a temporary mount to observe pollen germination.
- 2.Study the plant population density by quadrat method.
- 3.Study the plant population frequency by quadrat method.
- 4.Prepare a temporary mount of onion root tip to study mitosis.
- 5.Isolate DNA from available plant material such as spinach, green pea seeds, papaya, etc.

B. Study and observe the following (Spotting):

1. Flowers adapted to pollination by different agencies (wind, insects, birds).
2. Pollen germination on stigma through a permanent slide or scanning electron micrograph.
3. Identification of stages of gamete development, i.e., T.S. of testis and T.S. of ovary through permanent slides (from grasshopper/mice).
4. Meiosis in onion bud cell or grasshopper testis through permanent slides.
5. T.S. of blastula through permanent slides (Mammalian).
6. Mendelian inheritance using seeds of different colour/sizes of any plant.
7. Prepared pedigree charts of any one of the genetic traits such as rolling of tongue, blood groups, ear lobes, widow's peak and colour blindness.
8. Controlled pollination - emasculation, tagging and bagging.
9. Common disease causing organisms like Ascaris, Entamoeba, Plasmodium, any fungus causing ringworm through permanent slides, models or virtual images or specimens. Comment on symptoms of diseases that they cause.
10. Models specimen showing symbiotic association in root nodules of leguminous plants, Cuscuta on host, lichens.
11. Flash cards models showing examples of homologous and analogous organs.

Biotechnology syllabus (2024-25)

Class - XII

Term I

April

Recombinant DNA technology

May

Protein structure and engineering

July

Protein structure and engineering contd.....

Genomics and bioinformatics

August

Microbial culture and application

September

Microbial applications and bioethics

Practicals:

1. Use of special equipments in biotechnology experiments
2. Isolation of DNA from plant material.
3. Preparation of media.
4. Dilution of soil samples.
5. Pouring of media, spreading and streaking of sample on media.
6. Cell viability assay
7. Gram staining.

Term II

October

Plant cell culture and application

November

Animal cell culture and applications

Practicals:

1. Computer based all practicals.
 - a. Studying DNA sequence comparing proteins using GenBank.
 - b. Compositional analysis
 - c. Motif analysis
 - d. Complementary sequence
 - e. Gen Bank.

Unit test I: Recombinant DNA technology

Half yearly: Recombinant DNA technology and protein structure and engineering, Genomics and bioinformatics.

Preboard I: All chapters

Preboard II: All chapters.

Maharshi Patanjali Vidya Mandir, Prayagraj

Syllabus : 2024-25

Subject : Chemistry

Class - XII

April - Solutions, Electrochemistry

May - Electrochemistry (continued), Chemical Kinetics

July - Chemical Kinetics (continued), Biomolecules, Haloalkane and haloarenes

August - Haloalkane and haloarenes ,, Alcohols, Phenol and ethers

September - **Alcohol, phenol and ethers(continued), Aldehydes**, Ketones and Carboxylic Acids

October - Amines, d and f-block elements

November - Co-ordination compounds

December - **Co-ordination compounds continued.**

1'st Unit Test-	Solutions, Electrochemistry, Chemical kinetics.
Half yearly--	Solutions, Electrochemistry, Chemical Kinetics, Biomolecules, Haloalkanes and Haloarenes Alcohols, Phenol and Ethers.
Pre Board Exams	Complete Syllabus

Chemistry Practical

Ist Term – 1. Salt Analysis - Test for Cations and anions

2. Core – Experiments –

- a. To prepare double salt
- b. To Identify carbohydrate, fats and proteins in a given food – stuff.
- c. To prepare a colloidal sol of starch
- d. To separate the coloured components present in the black ink by paper chromatography and compare R_f value.
- e. To prepare a sample of Iodoform
- f. To detect the presence of functional group in a given organic sample.

IInd Term –

Preparation of standard solution of Mohr's salt and oxalic acid and determination of molarity of unknown KMnO₄ solution.

Maharshi Patanjali Vidya Mandir, Prayagraj
Syllabus Breakup :2024-25
Applied Mathematics
Class- XII

April	Matrices & Determinants
	Inverse of a Matrix
	Solution of system of simultaneous equations
May	Numbers ,Quantification & Numerical Applications.
July	Calculus (Differentiation and its applications)
August	Maxima and Minima , Increasing /Decreasing Function
September	Indefinite Integration
October	Definite Integrals as area under the curve
	Application of Integration
November	Differential Equations and its applications ,
	Inferential Statistics
	Index Numbers and Time Based Data
December	Probability Distribution

	Financial Mathematics
	Linear Programming

I st Unit Test	Chapters covered from April to July
Half Yearly Examination	Chapters covered from April to September
Pre-Board Examination	Whole Syllabus

Maharshi Patanjali Vidya Mandir, Prayagraj
Syllabus Breakup :
2024 - 25
Subject : Standard Mathematics
Class - XII

April	Matrices & Determinants
	Adjoint & Inverse of a Matrix
	Solution of System of Linear Equations
May	Relations and Functions
	Inverse Trigonometric Function
July	Continuity and Differentiability
	Differentiation .
August	Application of Derivatives
	Increasing and Decreasing Functions
September	Maxima & Minima
	Indefinite Integration
October	Definite Integration & its properties
	Area Enclosed by Curves
November	Differential Equations
	Vector Algebra except scalar triple product.
	Three-D Geometry
	Linear Programming

December	Probability
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1st Unit Test	Chapters covered from April to July
Half Yearly Examination	Chapters covered from April to September
Pre-Board Examination	Whole Syllabus

MAHARSHI PATANJALI VIDYA MANDIR
SYLLABUS – LEGAL STUDIES
CLASS XII
YEAR 2024-25

APRIL

1. Structure, hierarchy of courts, and legal officers in india
2. Salient features of indian judiciary
3. Legal officers in india
4. Independence of judiciary as a constitutional safeguard. I provisions relating to the judges
5. Different roles of the supreme court of india
6. Public interest litigations- a powerful tool for judicial activism
7. Appointments, retirement and removal of judges
8. Courts and judicial review
9. Alternative dispute resolution in india (adr)

MAY

10. Adversarial and Inquisitorial Systems
11. Adversarial and Inquisitorial Systems
12. Arbitration
13. Mediation
14. Conciliation
15. Lok adalat
16. . Ombudsman
17. JULY

18. a) Introduction to Contracts b) Formation of Contract c) Intention to Contract d) Consideration e) Capacity to Contract f) Consent g) Types of Contracts h) Discharge of Contract i) Remedies in case of breach
19. a) Concept of law of Torts b) Sources of Law of Torts c) Intentional Tort d) Defamation e) Negligence f) Strict Liability g) Absolute Liability
20. a) Types of Property b) Who can transfer property c) Essential of a valid transfer d) Types of Transfer- Sale, Lease, Exchange, Gift
21. a) Meaning of Intellectual Property b) International Obligations that have shaped Indian IPR c) WIPO d) Copyright e) Patent f) Trademark g) Geographical Indication h) Design

AUGUST

22. a) Law and Sustainable Development
23. Forms of Legal Entities
24. a) Introduction b) Initiatives under International Scenario c) Provisions under Indian Constitution d) Environment Protection Act, 1986 e) Pollution Control Boards

SEPTEMBER

25. Types of Legal Entities in India a) Sole Proprietorship b) Partnership c) Limited Liability Partnership d) Private Limited company e) Public Limited Company f) One Person Company
26. a) Objectives of Criminal law b) Legislations for Criminal laws in India c) Distinction between Intention and Motive d) Stages of crime e) The Indian Evidence Act f) Admission and Confession)

OCTOBER

27. Human Rights Introduction 1. Historical Context b) Indian Constitutional framework on Human Rights and related Laws in India 1. The Preamble 2. Fundamental Rights-Part III of the Constitution 3. Directive Principles-Part IV- Articles 36-51 4. Fundamental Duties- Part IV(A)- Article 51
28. a) What are Quasi- Judicial Bodies? b) Various Human Rights Commissions 1. National Human Rights Commission (NHRC) 2. National Commission for Minorities 3. National Commission for Women (NCW) a) National Commission for Scheduled Castes and Scheduled Tribes b) National Commission for Protection of Child's Rights (NCPCR)

NOVEMBER

29. a) Introduction b) Historical Evolution of International Law c) What is International Law
30. d) Sources of International Law e) International Human Rights f) International Law & Municipal Law g) International Law & India h) Dispute Resolution
31. a) The Advocate Act,1961 b) Lawyers and Professional Ethics c) Advertising by Lawyers d) Liberalization and Globalization of legal profession e) Women and Legal Profession f) Legal Education in India, USA and UK g) Opportunities for Law Graduates

DECEMBER

32. a) Brief history of Legal services b) Free Legal Aid under Criminal law c) Legal aid by the State d) Legal Aid under the Indian Constitution e) National Legal Services Authority(NALSA) f) Legal Services Authority Act,1987 g) Legal Aid in context of social justice and Human Right

UNIT TEST 1 –

Syllabus covered in April and May

HALF YEARLY

Syllabus covered till September

FINAL – ENTIRE SYLLABUS

**Maharshi Patanjali Vidya Mandir, Prayagraj
Syllabus Breakup : 2024- 25
Subject - Business Studies
Class – XII**

April & May

1. Nature & Significance of Management
2. Principles of management

July – September (Half Yearly Examination)

1. Scientific Principles
2. Business Environment
3. Planning
4. Organizing
5. Staffing
6. Directing

7. Controlling

October – December

1. Financial Management
2. Financial Market
3. Marketing
4. Consumer Protection

**Maharshi Patanjali Vidya Mandir, Prayagraj
Syllabus Breakup: 2024 - 25
Subject - Accountancy
Class – XII**

April & May (Unit Test-1)

1. Fundamentals of Partnership

July – September (Till half yearly examination)

1. Admission of Partner.
2. Retirement of Partner
3. Death of a Partner
4. Dissolution of Partnership
5. Change in profit sharing ratio
6. Financial Statement Analysis
7. Balance Sheet of Company

October – December(Till Preboards)

1. Accounting for Companies
2. Issue of Debentures
3. Accounting Ratio's
4. Cash Flow Statement
5. Project Work Analysis

**Maharshi Patanjali Vidya Mandir, Prayagraj
Syllabus : 2024-25
Subject : Physics
Class - XII**

Month

Topics to be covered

April	Electrostatics (Introduction to force and field) Electrostatics Chapter–1: Electric Charges and Fields
May	Chapter–2: Electrostatic Potential and Capacitance
July	Chapter–2: Electrostatic Potential and Capacitance (continued) Unit II: Current Electricity (Chapter 3)
August	Unit II: Current Electricity (continued) Unit III: Magnetic Effects of Current and Magnetism Chapter–4: Moving Charges and Magnetism Chapter–5: Magnetism and Matter Unit IV: Electromagnetic Induction and Alternating Currents Chapter–6: Electromagnetic Induction
September	Chapter–7: Alternating Current Chapter–8: Electromagnetic Waves Unit VI: Optics Chapter–9: Ray Optics and Optical Instruments
October	Ray Optics (continued) and wave optics Chapter–10: Wave Optics
November	Waves optics (Continued), Unit VII: Dual Nature of Radiation and Matter Chapter–11: Dual Nature of Radiation and Matter Unit VIII: Atoms and Nuclei Chapter–12: Atoms Chapter–13: Nuclei Chapter–14: Semiconductor Electronics:

December	Chapter–14: Semiconductor Electronics: (continued)
Unit Test - I	Unit–I Electrostatics Chapter–1: Electric Charges and Fields Chapter–2: Electrostatic Potential and Capacitance
Half Yearly	Unit–I Electrostatics Chapter–1: Electric Charges and Fields Chapter–2: Electrostatic Potential and Capacitance Unit-II Current Electricity Chapter–3: Current Electricity Unit-III Magnetic Effects of Current and Magnetism Chapter–4: Moving Charges and Magnetism Chapter–5: Magnetism and Matter Unit-IV Electromagnetic Induction and Alternating Currents Chapter–6: Electromagnetic Induction Chapter–7: Alternating Current
Pre – Board	Entire CBSE curriculum of Physics (2024-25)

Physics Practical -

Till – Half Yearly

Section – A

Section – B

1. Sonometer: To find the frequency of AC mains with a sonometer
2. Half Deflection : To determine resistance of a galvanometer by half-deflection method and to find its figure of merit.
3. Metre Bridge: To find resistance of a given wire / standard resistor using metre bridge.
4. Ohm's law: To determine resistivity of two / three wires by plotting a graph for potential difference versus current.

Till Pre Board

1. Glass Prism: To determine angle of minimum deviation for a given prism by plotting a graph between angle of incidence and angle of deviation.
2. Convex Lens (u-v method): To find the focal length of a convex lens by plotting graphs between u and v or between $1/u$ and $1/v$.
3. Refractive Index of Unknown Liquid : To find the refractive index of a liquid using a concave mirror and a plane mirror.
4. Combination of Convex Mirror with Convex Lens: To find the focal length of a convex mirror, using a convex lens.

महर्षि पतंजलि विद्या मंदिर प्रयागराज

सत्र 2024 -25

पाठ्यक्रम विभाजन

विषय हिंदी

कक्षा 12

पाठ्य पुस्तकें -

- 1.आरोह भाग 2 ,
- 2.वितान भाग 2
- 3.अभिव्यक्ति और माध्यम

अप्रैल-

गद्य- भक्तिन

पद्य- आत्म परिचय ,

मई-

गद्य- बाजार दर्शन

पद्य-एक गीत

वितान-सिल्वर वैडिंग

व्याकरण- जनसंचार माध्यम,प्रिंट माध्यम

जुलाई-

गद्य- काले मेघा पानी दे

पद्य-पतंग ,कविता के बहाने

वितान -जूझ

व्याकरण- विभिन्न माध्यमों के लिए लेखन, रचनात्मक लेखन

अगस्त-

गद्य- पहलवान की ढोलक

पद्य- बात सीधी थी पर ,कैमरे में बंद अपाहिज

व्याकरण- पत्रकारीय लेखन के विभिन्न रूप और लेखन प्रक्रिया ,पत्र लेखन

सितंबर-

गद्य शिरीष के फूल

पद्य-उषा ,बादल राग

व्याकरणपठितण -रेडियो नाटक, अपठित गद्यांश पद्यांश ,पत्र लेखन

अक्टूबर-

गद्य - श्रम विभाजन और जाति प्रथा , मेरी कल्पना का आदर्श समाज

पद्य- कवितावली ,लक्ष्मण मूर्छा और राम का विलाप

वितान -अतीत में दबे पांव ,

व्याकरण-विशेष लेखन स्वरूप और प्रकार,रचनात्मक लेखन का अभ्यास

नवंबर -

गद्य-मेरी कल्पना का आदर्श समाज

पद्य - छोटा मेरा खेत ,बगुलों के पंख

वितान-समस्त पाठों की पुनरावृत्ति

दिसंबर- पढ़ाए गए समस्त पाठों की पुनरावृत्ति ।

महर्षि पतंजलि विद्या मंदिर

सत्र 2024 –25

पाठ्यक्रम विभाजन

विषय हिंदी

कक्षा 12

प्रथम यूनिट परीक्षा

गद्य -भक्तिन , बाजार दर्शन

पद्य -आत्मपरिचय ,एक गीत

वितान -सिल्वर वेडिंग,

व्याकरण- विभिन्न माध्यमों के लिए लेखन

अर्धवार्षिक परीक्षा

गद्य- भक्तिन ,बाजार दर्शन ,काले मेघा पानी दे ,पहलवान की ढोलक

पद्य -आत्मपरिचय ,एक गीत ,पतंग ,कविता के बहाने, बात सीधी थी पर, कैमरे में बंद अपाहिज ,उषा

वितान-सिल्वर वेडिंग ,जूझ

व्याकरण-पत्रकारीय लेखन, रचनात्मक लेखन ,पत्र लेखन ,कहानी का नाट्य रूपांतरण ,रेडियो नाटक , जनसंचार माध्यम एवं पत्रकारिता, अपठित गद्यांश एवं पद्यांश

प्री बोर्ड परीक्षा

वर्ष भर पढ़ाया गया संपूर्ण पाठ्यक्रम

क्रियाकलाप

त्वरित भाषण, कविता वाचन एवं वाद-विवाद

परियोजना कार्य

हिंदी कविता में प्रकृति चित्रण, लेखक ,कवि, साहित्य एवं विभिन्न सामाजिक विषयों पर फाइल वर्क

CLASS - 12
SUBJECT : PHYSICAL EDUCATION
YEAR : 2024-25

April	Management of Sporting Events
May	Management of Sporting Events
	Children and Women in Sports
July	Unit – II & Yoga as Preventive measure for Lifestyle Disease

August	Physical Education & Sports for CWSN (Children with Special Needs – Divyang)
	Sports and Nutrition
September	Test & Measurement in Sports
	Physiology & Injuries in Sports
October	Biomechanics & Sports
November	Psychology & Sports
December	Training in Sports

1st Unit Test	Chapters covered from April to July
Half Yearly Examination	Chapters covered from April to September
Pre-Board Examination	Whole Syllabus

Maharshi Patanjali Vidya Mandir, Prayagraj

Syllabus : 2024-25

Subject : IP

Class - XII

MONTH	CHAPTER	TOPICS
APRIL	<p style="text-align: center;">Unit 1: Data Handling using Pandas -I</p>	<p>Introduction to Python libraries- Pandas, Matplotlib. Data structures in Pandas - Series and Data Frames. Series: Creation of Series from – ndarray, dictionary, scalar value; mathematical operations; Head and Tail functions; Selection, Indexing and Slicing. Data Frames: creation - from dictionary of Series, list of dictionaries, Text/CSV files; display; iteration; Operations on rows and columns: add, select, delete, rename; Head and Tail functions; Indexing using Labels, Boolean Indexing; Importing/Exporting Data between CSV files and Data Frames</p>
MAY		<p>Unit 1: Data Visualization</p> <p>Purpose of plotting; drawing and saving following types of plots using Matplotlib – line plot, bar graph, histogram Customizing plots: adding label, title, and legend in plots.</p>
AUGUST	<p style="text-align: center;">Unit 2: Database Query using SQL</p>	<p>Math functions: POWER (), ROUND (), MOD (). Text functions: UCASE ()/UPPER (), LCASE ()/LOWER (), MID ()/SUBSTRING ()/SUBSTR (), LENGTH (), LEFT (), RIGHT (), INSTR (), LTRIM (), RTRIM (), TRIM (). Date Functions: NOW(), DATE(), MONTH(), MONTHNAME (), YEAR(), DAY(), DAYNAME (). Aggregate Functions: MAX (), MIN (), AVG (), SUM (), COUNT (); using COUNT (*). Querying and manipulating data using Group by, Having, Order by.</p>
SEPTEMBER	<p style="text-align: center;">Unit 3: Introduction to Computer Networks</p>	<p>Introduction to networks, Types of network: LAN, MAN, WAN. Network Devices: modem, hub, switch, repeater, router, gateway</p>
OCTOBER		<p>Network Topologies: Star, Bus, Tree, Mesh. Introduction to Internet, URL, WWW, and its applications- Web, email, Chat, VoIP. Website: Introduction, difference between a website and webpage, static vs dynamic web page, web server and hosting of a website. Web Browsers: Introduction, commonly used browsers, browser settings, add-ons and plug-ins, cookies.</p>
NOVEMBER	<p style="text-align: center;">Unit 4: Societal Impacts</p>	<p>Digital footprint, net and communication etiquettes, data protection, intellectual property rights (IPR), plagiarism, licensing and copyright, free and open source software (FOSS), cybercrime and cyber laws, hacking, phishing, cyber bullying, overview of Indian IT Act. E-waste: hazards and management. Awareness about health concerns related to the usage of technology.</p>

DECEMBER	PROJECT WORK.
UNIT TEST – I	Data Handling using Pandas -I
HALF YEARLY EXAMINATION	Data Handling using Pandas -I , Data Visualization
PRE-BOARD-I	Data Handling using Pandas –I, Data Visualization, Database Query using SQL, Introduction to Computer Networks, Societal Impacts
PRE-BOARD-II	Data Handling using Pandas –I, Data Visualization, Database Query using SQL, Introduction to Computer Networks, Societal Impacts

MAHARSHI PATANJALI VIDYA MANDIR, PRAYAGRAJ
SYLLABUS BREAKUP: 2024 - 2025
SUBJECT: INFORMATICS PRACTICES (065)
CLASS - XII

MONTH	UNIT	CHAPTER
APRIL - SEPTEMBER	UNIT-1, UNIT-2	<ul style="list-style-type: none"> ☒ Data Handling using Pandas -I ☒ Data Visualization ☒ Database Query using SQL
OCTOBER- DECEMBER	UNIT -2, UNIT-3 & UNIT-4	<ul style="list-style-type: none"> ☒ Introduction to Computer Networks ☒ Societal Impacts

MONTH	LIST OF PRACTICALS
APRIL-SEPTEMBER	<p>(A) Data Handling:</p> <ol style="list-style-type: none"> 1) Create a panda's series from a dictionary of values and a ndarray 2) Given a Series, print all the elements that are above the 75th percentile. 3) Create a Data Frame quarterly sales where each row contains the item category, item name, and expenditure. Group the rows by the category and print the total expenditure per category. 4) Create a data frame for examination result and display row labels, column labels data types of each column and the dimensions 5) Filter out rows based on different criteria such as duplicate rows. 6) Importing and exporting data between pandas and CSV file
	<p>(B) Visualization:</p> <ol style="list-style-type: none"> 1) Given the school result data, analyses the performance of the students on different parameters, eg. subject wise or class wise. 2) For the Data frames created above, analyze, and plot appropriate charts with title and legend. 3) Take data of your interest from an open source (e.g. data.gov.in), aggregate and summarize it. Then plot it using different plotting functions of the Matplotlib library.
OCTOBER-NOVEMBER	<p>(C) Data Management :</p> <ol style="list-style-type: none"> 1) Create a student table with the student id, name, and marks as attributes where the student id is the primary key. 2) Insert the details of a new student in the above table. 3) Delete the details of a student in the above table. 4) Use the select command to get the details of the students with marks more than 80. 5) Find the min, max, sum, and average of the marks in a student marks table. 6) Find the total number of customers from each country in the table (customer ID, customer Name, country) using group by. 7) Write a SQL query to order the (student ID, marks) table in descending order of the marks.