



ARYA KANYA MAHAVIDYALYA, SHAHABAD MARKANDA

A Premier Institution, Affiliated to Kurukshetra University,

Kurukshetra

akmshahabad@yahoo.com



**ARYA KANYA MAHAVIDYALYA
SHAHABAD MARKANDA
SESSION:2023-24**

**SUBJECT OUTCOMES
UNDER-GRADUATE
ODD SEMESTER**



ARYA KANYA MAHAVIDYALYA, SHAHABAD MARKANDA

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ARYA KANYA MAHAVIDYALYA

SHAHABAD MARKANDA

SESSION:2023-24

SUBJECT OUTCOMES

SUBJECT:BOTANY

LEARNING OUTCOMES (2023-2024)

BOTANY –ODD SEM

B.SC. MEDICAL

1st Semester - Diversity of Microbes, Algae, Fungi and Archegoniate

Students will be able to-

1. Able to understand the general characteristics of bacteria, viruses and fungi.
2. Develop a conceptual understanding of Phycology.
3. Gain knowledge on concepts of Bryology.
4. Learn about biology of pteridophytes.

3rd Semester

Paper 1 - Biology and Diversity of seed Plants -1

Students will be able to-

1. Gain knowledge about Gymnosperms diversity and its characters
2. Learn about Geological Time Scale
3. Know about Importance of Fossils and Reconstruction of various Fossil plants
4. Learn details of various Gymnosperms

Paper 2- Plant Anatomy

Students will be able to-

1. Gain knowledge about Tissues and Diversity in Plant forms
2. Learn about Leaf structure in detail
3. Know about Secondary Growth in various Roots and Stems.

5th Semester

Paper 1- Plant Physiology

Students will be able to-

1. Know about various plant Physiological Processes like Imbibitions, Osmosis etc.
2. Learn about mineral Nutrition and Transpiration
3. Photosynthesis detailed process
4. Detailed Process of Respiration

Paper 2 - Ecology

Students will be able to-

1. Know about Ecology
2. Various Environmental factors
3. Detail account of Global Warming



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SESSION:2023-24

SUBJECT OUTCOMES

SUBJECT:CHEMISTRY



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Paper code	Paper name	Out comes	
B.sc. 2 nd	Teacher name	Students will able to	
201	Ms. Poonam	CO1	Know the name and properties of d block elements
		CO2	Understands coordination compounds and chelates
		CO3	Learns isomerism in coordination compounds
		CO4	Differentiate inner and outer orbitals complexes
		Co5	Understands non –aqueous solvents
PAPER CODE	TEACHER NAME		STUDENTS WILL ABLE TO
CH -202	MS. SHANKY	CO1	Thermodynamics terms ;systems and surroundings
		CO2	Laws of thermodynamics
		CO3	Learn the conditions of temperature , pressure , heat
		CO4	Understand about the distribution law
		CO5	Determination of degree of hydrolysis .
CH-203	Ms. Poonam	CO1	Name various alcohols, phenols, ethers & acid and their derivatives
		CO2	Understand various basic concepts of mechanisms
		CO3	Compare reactivities of various compounds and explain the reason
		CO4	Learn method of preparation & properties of alcohols, phenols, ethers & acid
		CO5	Learn the basic principle of UV spectroscopy



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CH-204	MS. Poonam	CO1	Understands lanthanides and actinides
		CO2	Compare and differentiate properties of lanthanides and actenides
		CO3	Differentiate between quantitative and qualitative
		CO4	Test for acid and base
		CO5	Clear concepts of analyses
CH-205	Ms . Shanky	CO1	Learn about engine its effiecency
		CO2	Learn about carnot cycle
		CO3	Importance of thermodynamics laws for us.
		CO4	Study of cells hoe cells work
		CO5	Understand how the batteries work by the study of electrochemistry
CH-206	Ms. Poonam	CO1	Name various amines, aldehydes & ketones
		CO2	Understand various basic concepts of mechanisms
		CO3	Compare reactivities of various compounds and explain the reason
		CO4	Learn method of preparation of amines, diazonium salts, aldehydes & ketones
		CO5	Learn the basic principle of IR spectroscopy
B.SC. 3RD YEAR			



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PAPER CODE	TEACHER NAME	STUDENTS	WILL ABLE TO
CH-301	Ms. Shanky	CO1	Learn and clear the concepts of valence bond theory
		CO2	Study the transition metal complexes
		CO3	Clear the concepts of d-d transition
		CO4	Factors affecting the crystal field parameters
CH-302	MS. SHANKY	CO1	Difference between classical mechanics and quantum mechanics .
		CO2	Study of wave nature
		CO3	Study of paramagnetic ,diamagnetic behaviour of substances .
		CO4	Study of different energy levels in vibrational spectrum and rotational spectrum
		CO5	Learn raman spectrum .polarizability.
CH-303	Ms. Poonam	CO1	Name various Organometallic compounds
		CO2	Compare reactivities of various organometallic compounds and explain the reason
		CO3	Learn name & classification of carbohydrates
		CO4	Differentiate among disaccharides and polysaccharides



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CH-304	MS. Aakriti	CO1	Concepts of hard and soft acids
		CO2	Study of bioinorganic chemistry
		CO3	Difference between myoglobin and hemoglobin
		CO4	Study of silicons and phosphazones
		CO5	Study
CH-305	MS . SHANKY	CO1	Study electronic spectrum .
		CO2	Concept of bonding and non bonding
		CO3	Learn molecular orbitals
		CO4	Laws of photochemistry
		CO5	Difference between thermal and photochemical reactions
CH-306	Ms. Poonam	CO1	Name & learn various addition and condensation polymers
		CO2	Understand various basic concepts of mechanisms of polymers
		CO3	Learn method of preparation of various heterocycles
		CO4	Understands and write classical and Merrifield synthesis of peptides
		CO5	Learns various classes of proteins & understand their structures



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SESSION:2023-24

SUBJECT OUTCOMES

SUBJECT:COMMERCE

Subject Outcomes Odd Semester (2023-24)

B.Com Sem-1(General)			
B23-com-101	Financial Accounting I	CO-1	The students will be able to understand about book-keeping, accounting and their principles-concepts and conventions.
		CO-2	The students will be able to understand about books of accounts such as journal, ledger and trail balance. They will also get to know how to rectify the errors.
		CO-3	The students will be able to prepare depreciation and also get to know about provisions and reserves.
		CO-4	The students will be able to learn how to prepare final accounts, accounts of Non-profit Organizations, consignment accounts.
B23-com 102	Business law	CO-1	The students will be able to understand the provision of Indian contract Act
		CO-2	They will be able to know the obligations of buyer and seller for making the business agreements and contracts.
		CO-3	They will understand to apply skills to initiate entrepreneurial ventures as partnership and LLP
		CO-4	The students will be able to understand the concept and scope of negotiable instruments and legal safeguard information technology
B23-COM-103	Business Management	CO-1	The students came to know about the conceptual framework of business management.
		CO-2	The students will be able to understand the utility and application of planning and functions of management

		CO-3	They will also get knowledge to use the concepts of delegations decentralization and staffing in organization
		CO-4	The students will also understand the application of leadership style
B23-COM-105	Personal finance	CO-1	The students will able to learn about the basic of personal finance
		CO-2	The students will be able to gain the knowledge of investment
		CO-3	The students also able to know about the relationship between investment risk and return
		CO-4	The students will be able to do insurance planning ,tax and estate planning and retirement planning.
B.Com Sem-1(Computer Application)			
B23-com-101	Financial Accounting I	CO-1	The students will able to understand about book-keeping, accounting and their principles- concepts and conventions.
		CO-2	The students will be able to understand about books of accounts such as journal, ledger and trail balance. They will also get to know how to rectify the errors.
		CO-3	The students will be able to prepare depreciation and also get to know about provisions and reserves.
		CO-4	The students will be able to learn how to prepare final accounts, accounts of Non-profit Organizations, consignment accounts.
B23-com 102	Business law	CO-1	The students will able to understand the provision of Indian contract Act
		CO-2	They will be able to know the obligations of buyer and seller for making the business

			agreements and contracts.
		CO-3	They will understand to apply skills to initiate entrepreneurial ventures as partnership and LLP
		CO-4	The students will be able to understand the concept and scope of negotiable instruments and legal safeguard information technology
B23-COM-103	Business Management	CO-1	The students came to know about the conceptual framework of business management.
		CO-2	The students will able to understand the utility and application of planning and functions of management
		CO-3	They will also get knowledge to use the concepts of delegations decentralization and staffing in organization
		CO-4	The students will also understand the application of leadership style
B.Com Sem-3 (General)			
BC-301	Corporate Accounting	CO-1	Students will be able to classify different types of sources of finance.
		CO-2	Students will be able to understand about accounting for share capital & debentures; Book building, issue of right and bonus shares, buy back of shares.
		CO-3	Students will be able to understand and analyze the financial statements of companies .
		CO-4	To understand about amalgamation and reconstruction of companies and Internal reconstruction: concept and accounting treatment
BC-302	Business Statistics	CO-1	Students will be able to understand about learning different sources of data and methods to collect them.
		CO-2	Students will be able to understand the measures of central tendency.

		CO-3	Students understand about index numbers and time series will enhance their statistical skills used in research.
		CO-4	Analysis of Times Series, Computation of seasonal-indices by sample averages, ratio-to-trend, ratio-to moving average and link relative methods.
BC-303	Business Law-1	CO-1	This will help students in learning the Contract Act, validity, legality of Contract.
		CO-2	Students will be able to understand Remedies available in case of breach of contract etc.
		CO-3	They will be able to understand the Sales of goods Act 1930, Consumer Protection Act 1986.
		CO-4	Special contracts: indemnity & guarantee, bailment and pledge; contract of agency.
BC-304	Company Law	CO-1	Students will be able to understand about company and its formation.
		CO-2	types of companies, Memorandum of Association: clauses, doctrine of ultra vires, alteration of clauses. Articles of Association
		CO-3	Students will be able to understand the process of issue of shares and debentures and concepts related to them.
		CO-4	Students understand about Transfer & transmission of shares and debentures.
BC-305	Indian Financial System	CO-1	Students understand about nature and role of financial system and economic development
		CO-2	Students will be able to understand Financial markets and financial instruments, money and capital markets.
		CO-3	To understand about the debt market and different financial institutions of India.
		CO-4	Students will be able to understand the Financial institutions Reserve Bank of India organization, management and functions, credit creation and credit control.

BC-306	Rural Marketing	CO-1	Students will be able to understand about the rural marketing, process and different approach of rural marketing.
		CO-2	Students will be able to understand about the product planning,distribution of product
		CO-3	Students will be able to understand Planning and organizing personnel selling in rural markets; Innovation in rural market;
		CO-4	Students will be able to understand E-commerce in rural markets, E-chaupal & other similar initiatives in rural markets.
B.Com Sem-3 (Computer Application)			
BC-301	Corporate Accounting	CO-1	Students will be able to classify different types of sources of finance.
		CO-2	Students will be able to understand about accounting for share capital & debentures; Book building, issue of right and bonus shares, buy back of shares.
		CO-3	Students will be able to understand and analyze the financial statements of companies .
		CO-4	To understand about amalgamation and reconstruction of companies and Internal reconstruction: concept and accounting treatment
BC-302	Business Statistics	CO-1	Students will be able to understand about learning different sources of data and methods to collect them.
		CO-2	Students will be able to understand the measures of central tendency.
		CO-3	Students understand about index numbers and time series will enhance their statistical skills used in research.
		CO-4	Analysis of Times Series,Computation of seasonal-indices by sample averages, ratio-to-trend, ratio-to moving average and link relative methods.
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		CO-2	types of companies,Memorandum of Association: clauses, doctrine of ultra vires, alteration of clauses. Articles of Association
		CO-3	Students will be able to understand the process of issue of shares and debentures and concepts related to them.
		CO-4	Students understand about Transfer & transmission of shares and debentures.
		CO-3	Students will be able to understand to concept of limited liability partnership act,2008. its introduction,nature and incorporation of limited liability partnership , partners and their relations, extent and limitations of liability,financial disclosures.investigation, conversion into limited liability partnership, winding up and dissolution
		CO-4	Students will be able to understand the concept of information technology act,2000 and Right to information act,2005
		CO-3	Students will be able to evaluate the technique of valuation of consolidated balance sheet of holding company and able to analysis the concept of liquidation of company.
		CO-4	Gain confidence in preparation of bank accounts,insurance company, and holding company accounts independently
B.Com Sem-5 (General)			
BC-501	Cost accounting	CO-1	Students will be able to understand the nature, scope and techniques of cost accounting.

		CO-2	Students will be able to get knowledge about the concept & techniques of inventory control, labour cost accounting, idle time and overtime.
		CO-3	Students will be able to understand methods of wage payment, accounting for overheads, output costing and contract costing.
		CO-4	Students will be able to get knowledge about process costing, standard costing, variance analysis, cost control and cost reduction.
BC-502	Financial management	CO-1	Students will be able to understand the nature and scope of financial management and financial planning.
		CO-2	Students will be able to understand capitalisation, financial forecasting and sources of finance.
		CO-3	Students will be able to understand cost of capital, capital structure and capital budgeting.
		CO-4	Students will be able to get knowledge about management of working capital, management of receivables, inventory management and dividend policy.
BC-503	GOODS AND SERVICES TAX	CO-1	Students will be able to understand tax structure in India, administration of GST and taxable event under GST.
		CO-2	Students will be able to understand levy and collection of tax, exemption and composition scheme and time of supply.
		CO-3	Students will be able to understand the integrated goods and service tax Act, 2017 and nature of supplies.
		CO-4	Students will be able to understand place of supply, registration, payment of tax, offences and penalties.
BC-504	Income-Tax-1	CO-1	Students will be able to understand important definitions, agricultural income, residence and tax liability.

		CO-2	Students will be able to understand exemptions from tax, income from salaries and income from house property.
		CO-3	Students will be able to understand profits and gains of business or profession, depreciation and investment allowance and capital gains.
		CO-4	Students will be able to understand income from other sources, clubbing of incomes, set off and carry forward of losses.
BC-505	Auditing	CO-1	Students will be able to understand object, importance and limitations of auditing.
		CO-2	Students will be able to get knowledge about types of audit, audit process , audit programme, internal control ,internal check and internal audit.
		CO-3	Student will be able to understand routine checking, vouching, verification of assets and liabilities and appointment, power, duties and liabilities of an auditor.
		CO-4	Students will be able to understand audit report, investigation, auditing of e-commerce transactions and ethics.
BC-506	SUPPLY CHAIN MANAGEMENT	CO-1	Students will be able to understand meaning and features of supply chain management and marketing mix .
		CO-2	Students will be able to understand co-ordination and integration for supply chain management .
		CO-3	Students will be able to understand strategic supply chain management, transportation , warehousing and customer service.

		CO-4	Students will be able to understand distribution channel design, information system and recent developments in supply chain management.
B.Com Sem-5 (Computer Application)			
BC-501	Cost accounting	CO-1	Students will be able to understand the nature, scope and techniques of cost accounting.
		CO-2	Students will be able to get knowledge about the concept & techniques of inventory control, labour cost accounting, idle time and overtime.
		CO-3	Students will be able to understand methods of wage payment , accounting for overheads, output costing and contract costing.
		CO-4	Students will be able to get knowledge about process costing, standard costing, variance analysis, cost control and cost reduction.
BC-502	Financial management	CO-1	Students will be able to understand the nature and scope of financial management and financial planning.
		CO-2	Students will be able to understand capitalisation, financial forecasting and sources of finance.
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		CO-2	Students will be able to understand exemptions from tax, income from salaries and income from house property.
		CO-3	Students will be able to understand profits and gains of business or profession, depreciation and investment allowance and capital gains.
		CO-4	Students will be able to understand income from other sources, clubbing of incomes, set off and carry forward of losses.
		CO-4	The student will be able understand about the role of insurance intermediaries
		CO-4	The student will be able to learn how to deal with emerging issues concerning employee empowerment, quality of work life, job satisfaction and job stress.
		CO-3	The student will be able to gain insights on role of economic systems, economic planning, government policies, public sector and development banks, economic reforms, liberalization and its impact on business
		CO-4	The student will be able to understand about the importance of multinational corporations, foreign collaboration and international institutions in business



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SESSION:2023-24

SUBJECT OUTCOMES

SUBJECT:COMMERIAL ARTS,

DESIGNING & PAINTING

Paper code	Paper Name	Outcomes	
BA Sem-I (Major)			
Paper A	Foundation of Arts (Theory)	CO1	Understanding in Basic knowledge of art in the beginning.
		CO2	Learning about the Classification of Art
		CO3	Learning about Various types of Folk Art
		CO4	Learning about Elements of Art : Lines, Shapes, Texture, Size and Tones.
		CO5	Knowledge about How to use Colours – Colour Theory
Paper-B	Still Life (Practical)	CO1	Create a Drawing by focusing an object
		CO2	Able to concentrate on the different angles on still objects
		CO3	Observing the small details of objects.
		CO4	Become confident in attempting something new in their drawings
		CO5	Ability to look at the finer details through light and shade via colours or pencils.

Paper code	Paper Name	Outcomes	
BA Sem-II (Major)			
Paper A	Basics of Drawing (Theory)	CO1	Understanding meaning of Drawing, It's Scope and objectives.
		CO2	Introducing different types of Drawings.
		CO3	Understanding Uses and Techniques of Proportion
		CO4	Learning about Various Shading Techniques.
		CO5	Understanding about Perspective drawing
Paper-B Section-A	Object/Perspective Drawing (Practical)	CO1	Create a Drawing by focusing an object
		CO2	Able to concentrate on the different angles on still objects
		CO3	Observing the small details of objects.
		CO4	Become confident in attempting something new in their drawings
		CO5	Ability to look at the finer details through light and shade via colours or pencils.

Paper code	Paper Name	Outcomes	
BA Sem-I (Minor)			
Paper A	Introduction of Fine Arts (Theory)	CO1	Understanding in Basic knowledge of art in the beginning.
		CO2	Learning about Fine Arts
		CO3	Learning of Visual Art : Painting, Sculpture, Applied Art, Graphics-Print making,& Photography
		CO4	Learning about Digital/Computer Art, Architecture, Textile Design
		CO5	Knowledge about Performing Arts: Music, Poetry, Dance, Cinema, Drama
Paper-B	Object/Product Drawing (Practical)	CO1	Create a Drawing by focusing an object
		CO2	Able to concentrate on the different angles on still objects
		CO3	Observing the small details of objects.
		CO4	Become confident in attempting something new in their drawings
		CO5	Ability to look at the finer details through light and shade via colours or pencils.

Paper code	Paper Name	Outcomes	
BA Sem-II (Minor)			
Paper A	Art of Photography (Theory)	CO1	Understanding in Basic knowledge of Photography- It's Origin & History.
		CO2	Learning about the Role of Background and Foreground in Photography.
		CO3	Learning of Different Equipment Used in Photography.
		CO4	Learning about technical terms used in photography.
		CO5	Knowledge about Types of Photography.
Paper-B	Photography (Practical)	CO1	Learning about How to hold and Handle the Camera.
		CO2	Knowledge about Types of Cameras.
		CO3	Able to adjust – Shutter speed, Aperture, Iso while doing Photography.
		CO4	Learning use of Tri-pods and Mono-pods.
		CO5	Learning Various Types of Photography: Portrait, Landscape, Product etc.

Paper code	Paper Name	Outcomes	
BA Sem- 3rd			
Paper A	Advertising Foundation (Theory)	CO1	Knowledge about the history of printing
		CO2	Understanding of methods in printing
		CO3	Update knowledge about latest technology
		CO4	Formulate the design of typography in copy formats
		CO5	Understanding of printing methods and technology in detail
Paper-B Section-A	Illustration (Practical)	CO1	Motivate student to learn a specific topic on the social issues
		CO2	Capture a moving audience with a message with strong illustration
		CO3	Learn to execute an illustration which is visually appealing and interesting
		CO4	Learning of colour scheme which is best suited for the topic.
		CO5	Understanding of poster size, shape and its elements
Paper-B Section-B	Layout (Practical)	CO1	Create an imaginary composition on the basis of given theme
		CO2	Use of multiple colour combination
		CO3	Arrangement of figures according to theme
		CO4	Build strong imagination
		CO5	Improve drawing skills
Paper-B Section-C	Poster (Practical)	CO1	Design a layout including their elements
		CO2	Creative harmonious design in illustration and typography
		CO3	Helping the reader to grasp the essence of the idea
		CO4	Focus on the main concept of ad
		CO5	Able to communicate the viewer via creative slogan and illustration

Paper code	Paper Name	Outcomes	
BA Sem- 4th			
Paper A	Advertising Foundation (Theory)	CO1	Understanding the meaning of advertising and its history
		CO2	Understanding of different functions of advertising
		CO3	Representation of a brand in a series with same idea with campaign
		CO4	Descriptive knowledge of photography with the help of camera
		CO5	Able to perform an ad design and launch a brand in the market.
Paper-B Section-A	Illustration (Practical)	CO1	Motivate student to learn a specific topic on the social issues
		CO2	Capture a moving audience with a message with strong illustration
		CO3	Learn to execute an illustration which is visually appealing and interesting
		CO4	Learning of colour scheme which is best suited for the topic.
		CO5	Understanding of poster size, shape and its elements
Paper-B Section-B	Layout (Practical)	CO1	Create an imaginary composition on the basis of given theme
		CO2	Use of multiple colour combination
		CO3	Arrangement of figures according to theme
		CO4	Build strong imagination
		CO5	Improve drawing skills
Paper-B Section-C	Poster (Practical)	CO1	Design a layout including their elements
		CO2	Creative harmonious design in illustration and typography
		CO3	Helping the reader to grasp the essence of the idea
		CO4	Focus on the main concept of ad
		CO5	Able to communicate the viewer via creative slogan and illustration

Paper code	Paper Name	Outcomes	
BA Sem- 5th			
Paper A	Advertising Foundation (Theory)	CO1	Knowledge of various types of media used in advertising
		CO2	Knowledge of Outdoor and Indoor media
		CO3	Explanation of print media used in daily life
		CO4	Latest software used in company to create advertisement
		CO5	Able to work in the market with efficient knowledge of software's
Paper-B Section-A	Illustration (Practical)	CO1	Create an imaginary composition on the basis of given theme
		CO2	Use of multiple colour combination
		CO3	Arrangement of figures according to theme
		CO4	Build strong imagination
		CO5	Improve drawing skills
Paper-B Section-B	Layout (Practical)	CO1	Design a layout including their elements
		CO2	Creative harmonious design in illustration and typography
		CO3	Helping the reader to grasp the essence of the idea
		CO4	Focus on the main concept of ad
		CO5	Able to communicate the viewer via creative slogan and illustration
Paper-B Section-C	Poster (Practical)	CO1	Motivate student to learn a specific topic on the social issues
		CO2	Capture a moving audience with a message with strong illustration
		CO3	Learn to execute an illustration which is visually appealing and interesting
		CO4	Learning of colour scheme which is best suited for the topic.
		CO5	Understanding of poster size, shape and its elements

Paper code	Paper Name	Outcomes	
BA Sem- 6th			
Paper A	Advertising Foundation (Theory)	CO1	Basic knowledge of marketing in the context of advertising
		CO2	Analysing the nature of market with presenting the product in the right place
		CO3	Representation of a brand in a series with same idea with campaign
		CO4	Comparing the types of agencies in detail
		CO5	Future Awareness in the career of commercial art
Paper-B Section-A	Illustration (Practical)	CO1	Create an imaginary composition on the basis of given theme
		CO2	Use of multiple colour combination
		CO3	Arrangement of figures according to theme
		CO4	Build strong imagination
		CO5	Improve drawing skills
Paper-B Section-B	Layout (Practical)	CO1	Design a layout including their elements
		CO2	Creative harmonious design in illustration and typography
		CO3	Helping the reader to grasp the essence of the idea
		CO4	Focus on the main concept of ad
		CO5	Able to communicate the viewer via creative slogan and illustration
Paper-B Section-C	Poster (Practical)	CO1	Motivate student to learn a specific topic on the social issues
		CO2	Capture a moving audience with a message with strong illustration
		CO3	Learn to execute an illustration which is visually appealing and interesting
		CO4	Learning of colour scheme which is best suited for the topic.
		CO5	Understanding of poster size, shape and its elements



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**ARYA KANYA MAHAVIDYALYA
SHAHABAD MARKANDA**

SESSION:2023-24

SUBJECT OUTCOMES

SUBJECT:COMPUTER SCIENCE

Subject Outcomes (2023 – 24) ODD Semester**Computer Science**

Paper Code	Paper Name		Course Outcomes
BCA Sem-1 (NEP)			
B23-CAP-101 (Major)	Problem solving using C	CO1	Understand basic C-programming concepts like data-types, operators, arrays & various C-statements.
		CO2	Apply control structures and user defined functions for solving problem.
		CO3	Get familiar with advanced concepts like structures, union etc. in C language.
		CO4	Develop simple C Programs
B23-CAP-102 (Major)	Foundations of Computer Science	CO1	Understand the basics of computer
		CO2	Learn about I/O devices and operating systems
		CO3	Understand the Internet and its services
		CO4	Learn about the threats and security concepts on Computers
		CO5	To understand the working of operating system, Internet and security related concepts.
B23-CAP-103 (Major)	Logical Organization of Computer	CO1	Understand number systems, error detecting correcting code and representations of numbers in a computer system.
		CO2	Understand computer arithmetic and Boolean algebra and simplification of Boolean expressions
		CO3	Understand working of logic gates and design various combinational circuits using these logic gates.
		CO4	Understand working of different types of flip-flops and design different types of registers.
		CO5	to understand the practical aspects of logical organization of computer
B23-SEC-101	Office and Spreadsheet Tools Learning	CO1	Understand the basic concepts of operating systems
		CO2	Do the basic editing and formatting in a document
		CO3	Create basic spread-sheets for different purposes
		CO4	Create basic presentations for different applications
		CO5	To understand the working of operating system and various office tools practically.
BCA Sem-3			
231	Object Oriented Programming Using C++	CO1	Understand Object oriented Programming concepts.
		CO2	Know about Constructor handling, Functions, Array of objects, Passing and Returning Objects to Functions, Dynamic Memory Management.
		CO3	Polymorphism - Operator Overloading & function overloading
232	Data Structures	CO1	Understand difference between data type & Data Str

		CO2	Know about Strings, Arrays, Stacks, Queue & Trees
		CO3	Learn to develop simple applications using various data str.
233	Computer Architecture	CO1	Describe the fundamental organization of a computer system
		CO2	Understand Register Transfer and Micro-operations.
		CO3	Explain addressing modes, instruction formats and program control statements.
		CO4	Know about Memory Organization & Peripheral Devices.
234	Software Engineering	CO1	Understand program vs. Software, Software Engineering, Programming paradigms.
		CO2	Knowing Software Development Process Models – Waterfall, etc.
		CO3	Feasibility Study, Software Requirement Analysis and Specifications – SRS
		CO4	Structured Analysis and Tools & Maintenance Process.
		CO5	Role of project management including planning, scheduling and, risk management
235	Fundamentals of Data Base Systems	CO1	Differentiate between Data & information. Also know about File-based sys. & Database sys.
		CO2	Understand components of DBMS – DBA, Data dictionary, etc
		CO3	Understand architecture – 3 level data representation and data independence. Differentiate Centralized and Client Server architecture to DBMS
		CO4	Know data models including ER Model & be able to build a ER Model given a problem.
		CO5	Understand Relational Model – Keys & Data Constraints. Also compare RDBMS with Hierarchical & Network Model.
236	Computer Oriented Numerical Methods	CO1	Understand that a numerical solution can be obtained for problems, where an analytical solution does not exist
		CO2	Know computer arithmetic, iterative methods, linear equations and ordinary differential equations, Interpolation and Approximation & Numerical Differentiation and integration
BCA Sem-5			
351	Web Designing Fundamentals	CO1	Write HTML and understand how to effectively implement it in the web environment
		CO2	Write CSS effectively to create well organized, styled web pages. Create a functioning web store with variable products.
352	Operating System-I	CO1	learn how Operating System is Important for Computer System. To make aware of different types of Operating System and their services.
		CO2	To learn different process scheduling algorithms and synchronization techniques to achieve better performance of a computer system
		CO3	To know virtual memory concepts

		CO4	To learn secondary memory management.
353	Artificial Intelligence	CO1	Demonstrate fundamental understanding of the history of artificial intelligence (AI) and its foundations
		CO2	Apply basic principles of AI in solutions that require problem solving, inference, perception, knowledge representation, and learning
		CO3	Demonstrate awareness and a fundamental understanding of various applications of AI techniques in intelligent agents, expert systems, artificial neural networks and other machine learning models
354	Computer Networks	CO1	Recognize the technological trends of Computer Networking.
		CO2	Discuss the key technological components of the Network.
		CO3	Evaluate the challenges in building networks and solutions to those.
355	Programming Using Visual Basic	CO1	Students list the visual programming concepts.
		CO2	Explain basic concepts and definitions
		CO3	Express constants and arithmetic operations & Distinguish variable and data types
356	Multimedia Tools	CO1	Describe the types of media and define multimedia system.
		CO2	Describe the process of digitizing (quantization) of different analog signals (text, graphics, sound and video)
		CO3	Use and apply tools for image processing, video, sound and animation
		CO4	Apply methodology to develop a multimedia system

B.Sc. (Phy. Sc, Life Sc.) Sem-I (NEP)

CC-1 MCC-1 B23-CSE-101 (Major)	Problem solving using C	CO1	Understand basic C-programming concepts like data-types, operators, arrays & various C-statements.
		CO2	Apply control structures and user defined functions for solving problem.
		CO3	Get familiar with advanced concepts like structures, union etc. in C language.
		CO4	Develop simple C Programs
CC-M1 B23-CSE-103 (Minor)	Basics of Computer Science	CO1	To introduce to the students, the basic understanding of the working of a computer system.
		CO2	To familiarize the students with the concept of algorithms and flowchart.
		CO3	To familiarize the students with the various types of software
		CO4	To make the students familiar with the basic internet technology and concepts.
B23-SEC-104	Essentials of Python	CO1	Understand the basic concepts of Python .
		CO2	Learn the syntax and semantics
		CO3	Illustrate the process of structuring the data using lists, tuples and dictionaries

		CO4	Write Python functions to facilitate code reuse and ma-nipulate strings.
		CO5	Understand the basic concepts of Python Programming practically
B.Sc. NM Sem-3 Computer Sc.			
P-1	Data Structures	CO1	Understand difference between data type & Data Str.
		CO2	Know about Strings, Arrays, Stacks and Queue & Trees.
		CO3	Understand Trees & Graphs structures.
		CO4	Learn to compare various searching & sorting techniques on the basis of their complexity
		CO5	Able to implement Files & know about various File organization methods
		CO6	Learn to develop simple applications using various data str
P-2	Software Engineering	CO1	Understand program vs. Software, Software Engineering, Programming paradigms.
		CO2	Knowing Software Development Process Models – Waterfall, etc
		CO3	Feasibility Study, Software Requirement Analysis and Specifications – SRS
		CO4	Structured Analysis and Tools & Maintenance Process
		CO5	Role of project management including planning, scheduling and, risk management.
B.Sc. NM Sem-5 Computer Sc.			
P-1	Fundamentals of Data Base Systems	CO1	Differentiate between Data & information. Also know about File-based sys. & Database sys
		CO2	Understand architecture – 3 level data representation and data independence. Differentiate Centralized and Client Server architecture to DBMS
		CO3	Know data models including ER Model & be able to build a ER Model given a problem.
P-2	Web Designing	CO1	Write HTML and understand how to effectively implement it in the web environment
		CO2	Write CSS effectively to create well organized, styled web pages. Create a functioning web store with variable products.
B.Com CAV Sem-3			
BC VOC-305	Data Structure	CO1	Understand Strings, Arrays, Stacks and Linked Lists. Then Design and analyze simple algorithms.
		CO2	Defines the meaning of iterative and recursive algorithms
		CO3	Calculates the running time of iterative algorithms. Uses Big 'O' notation to express algorithmic running time
		CO4	Describes and analyzes elementary sorting algorithms such as Selection sort, Bubble sort, Insertion sort, and Shell sort.
BC VOC-306	Fundamentals of Database	CO1	Differentiate between Data & information. Also know about File-based sys. & Database sys

	Management System	CO2	Understand architecture – 3 level data representation and data independence.
		CO3	Know data models including ER Model & be able to build a ER Model given a problem.
		CO4	Understand Relational Model – Keys & Data Constraints. Also compare RDBMS with Hierarchical & Network Model
		CO5	Understand RDBMS concepts – keys, Data Contraints, Normalization, etc.
		CO6	Able to use SQL queries & Design programs using PL/SQL constructs.

B.Com CAV Sem-5

BC VOC-505	Web Technology	CO1	Students are able to develop a dynamic webpage by the use of java script and Students will be able to connect a java program to a DBMS and perform insert
		CO2	Students will be able to write a well formed / valid XML document & DHTML
		CO3	Students will be able to write a server side java application called Servlet to catch update and delete operations on DBMS table form data sent from client, process it and store it on database.
BC-VOC-506	Systems Analysis & Design	CO1	Explain what systems are and how they are developed
		CO2	Identify and describe the phases of the systems development life cycle.
		CO3	Develop and evaluate system requirements.
		CO4	Work effectively in a team environment.

B.A. – I & B.Com – I Sem – I (NEP)

B23-SEC-103	Basic IT Tools	CO1	Identify the basic components of computers and terminology
		CO2	acquaint with Operating System and its applications for both desktop and mobile devices
		CO3	Understand computer networks, and browse the inter-net, content search, email and collaborate with peers
		CO4	Use e-Governance applications; and use computer to improve existing skills and learn new skills
		CO5	To implement various spreadsheet tools practically

B.Sc. Fashion Designing Sem – I (NEP)

B23-SEC-101	Office and Spreadsheet Tools Learning	CO1	Understand the basic concepts of operating systems
		CO2	Do the basic editing and formatting in a document
		CO3	Create basic spread-sheets for different purposes
		CO4	Create basic presentations for different applications
		CO5	To understand the working of operating system and various office tools practically.



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SESSION:2023-24

**SUBJECT OUTCOMES
SUBJECT:ECONOMICS**



Economics
Learning Outcomes (Odd Semester)
Session (2023-24)

Economics Department

Session: 2023-2024

B.A.1stSEM (CC)

Paper Code	Paper Name	Outcomes	
B23-ECO-101	MICROECONOMICS	CO:1	Understand the nature and scope of Economics, including the meaning of Economics, its Methods and why it is studied.
		CO:2	Analyze the role of an Economist, including the ability to think like an Economist, the Economist as a Scientist, and a Policy Adviser.
		CO:3	Evaluate the different types of economics activities and systems, including the organizations of economic activities and the evolution of present economic systems.
		CO:4	Apply the concepts of demand and supply, Elasticity to Real world economic situations.
		CO:5	They learn new things about Utilities and Indifferences Curve Analysis.
		CO:6	Get to know about Consumer Equilibrium, Production Function and Cost concept and Revenue analysis to real world economic situations. with their Formulas

B.A.3rdSEM

EC23	MACROECONOMICS	CO:1	The students came to know about the Macroeconomics and the Circular flow of Income in 4 Different Sectors.
		CO:2	They learn different formulas to calculate National Income and How to measure it.
		CO:3	Learn new theories of Classical and Keynesian Economist.
		CO:4	Get to know about the Saving - Investment function, Consumption Function.
		CO:5	Learn new terms APS, APC, MPS, MPC and their Formulas for calculation.



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		CO:6	They also learn about the Marginal Efficiency of Capital and its determinants and its measurement.
B.A.5thSEM			
EC25	INDIAN ECONOMY	CO:1	In this semester Students learn about the problems of Indian Economy and different Economic Systems.
		CO:2	They learn about why Indian Economy is seen as Underdeveloped economy, its reasons and how to overcome it.
		CO:3	They study and learn on which basis an underdeveloped economy is compared with developed economy.
		CO:4	It also studies the theory of Demographic Transition, population explosion and Occupational structure of Indian Economy.
		CO:5	They also learn about the problems of unemployment, poverty, and green revolution.
		CO:6	Get to know about the Agriculture Credits, Its policy, and Special Economic Zones - Merits and Demerits.



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Value Added Course			
B23-VAC-101	HUMAN VALUES AND ETHICS	CO:1	They learn about the process of Value Education and why it is important in real world.
		CO:2	They study and understand how society shapes norms and policies which helps them to understand the world.
		CO:3	They also understand the balance for personal growth, social cohesion, and environmental sustainability
		CO:4	They will explore the significance of understanding and imparting harmony with nature and society and how it contributes to overall well-being and togetherness
		CO:5	Get to know the relation between self, identity, and personality and how important these are for Personal Growth and Self-Awareness
		CO:6	They also learn how it shift the focus from seat time to skill mastery, allowing learners to progress at their own pace



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**ARYA KANYA MAHAVIDYALYA
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SESSION:2023-24

SUBJECT OUTCOMES

SUBJECT:ENGLISH

English Department Course Outcomes

Session 2023-24

B.A & AEC:

Semester	Paper Code	Subject	Outcomes
B.A Ist Sem	B-23 ENG 101 ENG 103	English Major Minor	1 Know the process of communication and its components 2 Improve the language skills i.e. Listening Skills, Speaking Skills, Reading Skills and Writing Skills (LSRW) 3 Construct basic and intermediate skills in English language. 4 Enhance comprehension skills, presentation skills, group discussion skills etc 5 Create literature sensibility and learn life skills through Literature and Language-I including Essays. 6 Develop confidence for communicating in English and create interest for the life-long learning of English language
B.A IInd Sem	B-23- ENG-201 ENG-203	English Major Minor	1 Know the process of communication and its components 2 Improve the language skills i.e. Listening Skills, Speaking Skills, Reading Skills and Writing Skills (LSRW) 3 Construct basic and intermediate skills in English language. 4 Enhance comprehension skills, presentation skills, group discussion skills etc 5 Create literature sensibility and learn life skills through Literature and Language-II including stories. 6 Develop confidence for communicating in English and create interest for the life-long learning of English language

B.A IIIrd Sem	-	English Compulsory	<p>1 Learn Grammar Skills</p> <p>2 Vocabulary Skills</p> <p>3 Improve spoken language skills</p> <p>4 Develop an understanding of literary devices and poetic forms.</p> <p>5 Create literature sensibility and learn life skills through Poetry appreciation and criticism.</p> <p>6 Develop confidence for communicating in English and create interest for the life-long learning of English language</p>
B.A IVth Sem	-	English Compulsory	<p>1 Learn Professional Spoken and Writing Skills</p> <p>2 Vocabulary Skills</p> <p>3 Improve spoken language skills</p> <p>4 Enhance comprehension skills, presentation skills, group discussion skills etc</p> <p>5 Understanding of genre of plays</p> <p>6 Create literature sensibility and learn life skills through one act plays</p> <p>7 Develop confidence for communicating in English and create interest for the life-long learning of English language</p>
B.A Vth Sem	-	English Compulsory	<p>1 Grammar Skills</p> <p>2 Spoken English Skills</p> <p>2 Improve the language skills through comprehension. Presentations and group discussion</p> <p>3 Understand nuances of Post-colonial Literature, novel and its types</p> <p>4 Create literature sensibility and learn life skills through Novel Kanthapura by Raja Rao.</p> <p>5 Develop confidence for communicating in English and create interest for the life-long learning of English language</p>

B.A VI Sem	-	English Compulsory	<p>1 Enhance comprehension skills, presentation skills, group discussion skills etc,</p> <p>2 Enhance professional Writing skills</p> <p>3 Enhance Vocabulary Skills</p> <p>4 Understand the Genre of Play/Drama</p> <p>5 Create literature sensibility and learn life skills through Shakespeare Play The Merchant of Venice.</p> <p>6 Develop confidence for communicating in English and create interest for the life-long learning of English language</p>
AEC Level -I B.A, B.SC. ALL, B.COM	AEC Level- I	Communicative English	<p>1 Know the process of technical communication and its components</p> <p>2 Improve the language skills i.e. Listening Skills, Speaking Skills, Reading Skills and Writing Skills (LSRW)</p> <p>3 Construct basic and intermediate skills in English language.</p> <p>4 Enhance comprehension skills, presentation skills, group discussion skills etc</p> <p>5 Create literature sensibility and learn life skills through Essays, Stories and one act play.</p> <p>6 Develop confidence for communicating in English and create interest for the life-long learning of English language</p>
AEC Level-II B.A, B.SC. ALL, B.COM	AEC Level-II	Personality Development	<p>1 Know the process of communication and its components</p> <p>2 Improve the language skills i.e. Listening Skills, Speaking Skills, Reading Skills and Writing Skills (LSRW)</p> <p>3 Construct basic and intermediate skills in English language.</p> <p>4 Enhance comprehension skills, presentation skills, group discussion skills, Interpersonal Skills etc.</p> <p>5. Overall development of personality.</p> <p>6 Develop confidence for communicating in English and create interest for the life-long learning of English language</p>



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**ARYA KANYA MAHAVIDYALYA
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SESSION:2023-24

SUBJECT OUTCOMES

SUBJECT:FASHION DESIGNING

B.Sc. Fashion Designing 2023-24

Subject wise outcomes

Paper code	Paper Name	Outcomes	
B.Sc. Fashion Designing Sem. 1			
B-23-FDS-101	Basic of design and illustration	CO1	Understand basics of rendering and basics of sketching, learns the basics of heads figure doodle, stick figure.
		CO2	Understand different types of medium and knowledge of color schemes.
		CO3	Also aware of fashion figure with garments using elements of design and principle of design.
B-23-FDS-102	Basic of Sewing	CO1	Understand the basics of hand stitches and machine seams
		CO2	Understand the knowledge of ruffles, flounce, collars, sleeves necklines etc.
		CO3	Be aware the maintenance and parts of sewing machine.
		CO4	Learns to take measurement and knowledge of different sizes.
B-23-FDS-103	Textile Science & care	CO1	Create awareness of textile science
		CO2	Understand the Natural and Man- made fibers
		CO3	Aware of Fabric care and their properties

Paper code	Paper Name	Outcomes	
B.Sc. Fashion Designing Sem. 2			
B-23-FDS-201	Concept of fashion	CO1	Learn about clothing terms
		CO2	Knowledge of international and national designers
		CO3	Also understand the fashion terms
B-23-FDS-202	Basic of Clothing and construction	CO1	Understand the fundamentals of sewing and construction techniques
		CO2	Learn about basic of cutting and finishing by hand and by machine
B-23-FDS-203	Fabric construction	CO1	Know about the formation of fabric.
		CO2	Understand the basic weaves and their construction method
		CO3	Understand the looms types, motion of weaving concept

Paper code	Paper Name	Outcomes	
B.Sc. Fashion Designing Sem. 3			
202	Pattern Making- I	CO1	Understand the knowledge of pattern making terms and tools
		CO2	Understand the basic knowledge of taking measurement and dress form parts
		CO3	Learn estimation of fabric calculation and good fitting.
204	Knitting Technology	CO1	Learn about clothing components
		CO2	Understand the knowledge of different costumes, jewelry, textiles, footwear of different period.
		CO3	Able to create different costumes

Paper code	Paper Name	Outcomes	
B.Sc. Fashion Designing Sem. 4			
206	Textile chemistry II	CO1	Understand the knowledge of dyeing
		CO2	Learns processing of different types of printing
208	History of Indian Costumes	CO1	Learn about clothing components
		CO2	Understand the knowledge of different costumes, jewelry, textiles, footwear of different period.
		CO3	Able to create different costumes

Paper code	Paper Name	Outcomes	
B.Sc. Fashion Designing Sem. 5			
301	History of world costume	CO1	Learn about clothing components of men and women
		CO2	Understand the knowledge of different costumes, jewelry, textiles, footwear of different period.
		CO3	Able to create different costumes
302	Apparel Manufacturing Technology	CO1	Understand the basic knowledge of Departments
		CO2	Understand about apparel industry and how it works
		CO3	Learn about special purpose machine

Paper code	Paper Name	Outcomes	
B.Sc. Fashion Designing Sem. 6			
306	Marketing and merchandising	CO1	Enhance the knowledge of merchandising, retailing.
		CO2	Understand the basic knowledge of high fashion and
		CO3	fashion forecast and trends
		CO4	Be aware of fashion market and how to launch the fashion product in market.

B.Sc. Fashion Designing 2023-24

(Overall outcomes)

Fashion designing is an art of inventing or innovating or adding beauty to clothing and by using certain accessories. Students become independent after completing this course and also improve and brush their skills. It becomes more confident enough to put their skills in this competitive market.

This course enhance their knowledge in apparel designing and accessories through manually and digitally. Learns how to cut the fabric through patterns and sewing their garments in readymade style.

Understand the knowledge of hand and machine embroidery and also be aware with printing, paintings and weaving



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SESSION:2023-24

SUBJECT OUTCOMES

**SUBJECT:HEALTH & PHYSICAL
EDUCATION**



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Subject Outcomes Odd Semesters for the Session 2023-24

Health and Physical Education

Paper code	Paper Name		Outcomes
BA Sem-1 B23-PED-101 Core Course – 1 (According to NEP – 2020)	History and Foundation of Physical Education	CO-1	Describe the Aims, Objectives and scope of Physical Education.
		CO-2	Explain the historical development of Physical Education in India
		CO-3	Illustrate the basic knowledge of biological aspects of Physical Education
		CO-4	Tell the various Career opportunities in Physical Education and Sports.
BA Sem-3 PE-23	Health & Physical Education	CO-1	Safety Education, Sports Injuries, Preventions & control.
		CO-2	Knowledge about communicable and non communicable disease.
		CO-3	To understand the concept of Balance diet
		CO-4	To Know the Anatomy and Physiology of Circulatory System
BA Sem-5 PE-25	Health & Physical Education	CO-1	Understand the concept of Growth & Development
		CO-2	To acquire knowledge about Sports Organization & Administration.
		CO-3	Study the concept of Body Posture and Deformities.
		CO-4	To Know the Anatomy and Physiology of Circulatory System.



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**ARYA KANYA MAHAVIDYALYA
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SESSION:2023-24

SUBJECT OUTCOMES

SUBJECT:HINDI

पाठ्यक्रम के परिणाम: सत्र (2023–24)

विषम सेमेस्टर

बी० ए० प्रथम वर्ष (सेमेस्टर 1)

पेपर कोड	पेपर का नाम		पाठ्यक्रम के परिणाम
HI-21	हिन्दी अनिवार्य	CO-1	भाषा के विभिन्न रूपों और भाषा का तकनीकी ज्ञान प्रदान करना।
		CO-2	आधुनिक कवियों का परिचय प्राप्त होना।
		CO-3	विभिन्न काव्य शैलियों के विषय में ज्ञान समृद्ध होना।

बी० ए० द्वितीय वर्ष (सेमेस्टर 3)

HI-23	हिन्दी अनिवार्य	CO-1	साहित्य के माध्यम से बदलते समय व समाज के अनुसार छात्राओं को सशक्त, स्वाभिमानी, आत्मनिर्भर व जागरूक बनाना।
		CO-2	इतिहास के माध्यम से अपनी सभ्यता व संस्कृति का बोध कराना।
		CO-3	हिन्दी भाषा, बोलियों और व्याकरण का ज्ञान।

बी० ए० तृतीय वर्ष (सेमेस्टर 5)

HI-25	हिन्दी अनिवार्य	CO-1	लोकमंगल, भावनात्मक एकता एवं सांस्कृतिक परम्परा से छात्राओं को जोड़ना।
		CO-2	पाठ्य रचनाओं के सन्दर्भ में समीक्षा की क्षमता विकसित करना।



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SESSION:2023-24

SUBJECT OUTCOMES

SUBJECT:HISTORY



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akmshahabad@yahoo.com

Subject Out Comes:- Department of History (2023-24) ODD SEMESTER

Paper Code	Paper Name	Outcomes	
B.A.-I Sem.-I			
B-23 HIS-101 (Major)	Idea of Bharat	CO 1	Acquint with the concept of Bharatvarsha and also learn about Ancient Tradition and Knowledge System
		CO 2	Understand the concept of Dharma, Philosophy, Art and Culture in Ancient India
		CO 3	Developments in the spheres of Science, Environment, Policy and Economy in Ancient India
		CO 4	Learn about the Ancient Maritime Commerce on outline Map
B-23 HIS-103 (Minor)	Indian History & Culture	CO 1	Learn about the Ancient Indian Literature and its Historicity
		CO 2	Understand the Class, Caste and Gender in shaping historically
		CO 3	Learn about the Culture and Heritage of India
		CO 4	Learn about the issues of Cultural Identity in the era of Globalization
B.A.-II Sem.-III			
HR-23 Opt (i)	Political History of India (1500 AD to 1857 AD)	CO 1	To learn the political ideas and institutions of Mughal State
		CO 2	Mughal Emperor with Special policy of Akbar & Aurengzeb
		CO 3	Learn about the European Trade and India become a colony.
		CO 4	To learn about the First War of Independence and Causes, impact and failure
B.A.-III Sem.-V			
HR-25 Opt (ii)	Rise of Modern World	CO 1	The Historical tendencies of west i.e. Rehaissance, Religious Reform Movements, Merchant Revolution, Scientific Revolution
		CO 2	To understand how these historical tendencies transformed the Europeans Society
		CO 3	Industrial Revolution & Agriculture Revolution is a big change of Europe.
		CO 4	To understand the European Society



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SHAHABAD MARKANDA

SESSION:2023-24

SUBJECT OUTCOMES

SUBJECT:HOME SCIENCE

Home Science (2023-24) Odd semester

B.A. Sem-III		
HS 23	Physiology	CO-1 Knowledge about Body mechanism through psychology.
		CO-2 Repair and care of sewing machine at home.
		CO-3 Learning basic stitches, seams, process, embroidery, knitting, tie CO and dye.
B.A. Sem-V		
HS 25	Food and Nutrition	CO-1 Importance of nutrition especially in present scenario.
		CO-2 Planning and preparing diets for various age groups of invalid diets for patients.



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SESSION:2023-24

SUBJECT OUTCOMES

SUBJECT:MATHEMATICS

Mathematics Subject Outcomes

Odd Semester

Session-2023-24

Paper Code	Paper Name , Teacher Name		Outcomes
B.Sc./B.A. Sem-1			
B23- MAT- 101	Calculus (Dr. Hema Sukhija)	CO1	Gain knowledge of the concepts and theory of limit, continuity and differentiability of functions. Attain skills of calculating the limit of functions and examining the continuity and differentiability of different types of functions, and perform successive differentiation of functions. To apply the procedural knowledge to obtain the series expansions of functions which find multidisciplinary applications
		CO2	Understand concepts of asymptotes and curvature, the geometrical meaning of these terms and to have procedural knowledge to solve related problems
		CO3	Determine singular points of a curve and classify them. Understand the concept of rectification of curves and derive the reduction formulae
		CO4	Have theoretical knowledge and practical skills to evaluate the area bounded by the curves, and volume and surface area of solids formed by revolution of curves
B.Sc./B.A. Sem-III			
BM-231	Advanced Calculus (Dr. Hema Sukhija)	CO1	The study of advance calculus enables to understand theoretical and geometrical concepts of Rolle's theorem, mean value theorem and various indeterminate forms.
		CO2	Understand differentiability of real valued functions of two variables and to prove associated results. To determine maximum and minimum of functions of two variables and to apply multivariable calculus in optimization problems.
		CO3	It also provides knowledge of concepts of limit and continuity, partial derivatives of functions of two or more variables and problems based on maxima, minima.
		CO4	This course also includes study of curves in space, concepts of surface and envelopes etc.
BM-232	Partial Differential Equations (Ms. Damini)	CO1	This course focuses on providing understanding basics of partial differential equations with their physical significance.
		CO2	It provides methodologies to solve linear and non linear partial differential equations of first and second order.

		CO3	Applications like solutions of heat, wave and Laplace equations are also explained.
		CO4	Apply a range of techniques to find solutions of standard partial differential equations.
		CO5	Understand basic properties of standard partial differential equations.
BM-233	Statics (Dr. Hema Sukhija & Ms. Damini)	CO1	This course provides a base for the applied mathematics which deals with study of composition and resolution of forces, their moments and couples.
		CO2	It also enables the understanding of analytic conditions of equilibrium of coplanar forces, centre of gravity and concept of virtual work.
		CO3	This paper also explains the mathematics of wrenches along with stable and unstable equilibrium.
		CO4	Understand the concept of force and Newton's law of motion.
		CO5	It also enables to understand about equilibrium ,stable, unstable and neutral equilibrium
B.Sc./B.A. Sem-V			
BM-351	Real Analysis (Dr. Hema Sukhija)	CO1	Real Analysis is the branch of mathematical analysis that studies the behavior of real numbers, sequences and series of real numbers, and real functions.
		CO2	Learn real sequences, their limit, boundedness and convergence. To find convergence and divergence of a sequence. To understand Cauchy sequence, subsequence and to prove related theorems
		CO3	Learn basic theory of Riemann integration. Learn fundamental theorem and mean value theorem of integral calculus
		CO4	Understand improper integrals and to have knowledge to test their convergence. Understand integral as a function of a parameter and apply methods for problem solving
		CO5	Some particular properties of real-valued sequences and functions that real analysis studies include convergence, limits, continuity, smoothness, differentiability and integrability.
		CO6	Understand concepts of metric spaces, sub spaces and their properties. Learn open, closed and bounded sets, interior and limit points , Cauchy sequence and completeness. Learn it for further study of Mathematics
BM-352	Groups and Rings	CO1	Students will able to Define subgroup, center, Normalizer of a subgroup.

	(Ms. Damini)		
		CO2	Find cycles and transpositions of a given permutations.
		CO3	Prove Lagrange's theorem ,Euler's theorem and Fermats theorem Define cyclic groups
		CO4	Prove a group has no proper subgroup if it is cyclic group of prime order
		CO5	Define normal subgroups , quotient groups and index of a subgroup
		CO6	Define homomorphism ,kernel of homomorphism, isomorphism prove Cayley's theorem , the fundamental theorem of homomorphism for groups
		CO7	Thus group theory and the closely related representation theory have many important applications in physics, chemistry, and materials science.
BM-353	Numerical Analysis (Ms. Damini)	CO1	Numerical Analysis is the area of mathematics and computer science that creates, analyzes, and implements algorithms for solving numerically the problems of continuous mathematics. Such problems originate generally from real-world applications of algebra, geometry, and calculus, and they involve variables which vary continuously.
		CO2	These problems occur throughout the natural sciences, social sciences, medicine, engineering, and business.
		CO3	Numerical methods are used for deeper understanding to predict the anomalies which are not possible in the analytical methods because the analytical method can solve only two or three unknown variables but numerical methods can do much more than it very accurately.
		CO4	To improve the student's skills in numerical methods by using the numerical analysis software and computer facilities
		CO5	This approach involves formulation of mathematical models physical situations that can be solved with arithmetic operations.
B.Com. Sem-I			
B23-COM-104	Business Mathematics-I (Dr. Hema Sukhija)	CO1	Students will be able to: Understand set theory, logical statements and truth tables.
		CO2	Learn the logarithms and arithmetic and geometric progressions and their applications
		CO3	Familiarize with the concepts of matrices and determinants. Learn to solve system of simultaneous linear equations
		CO4	Have the conceptual knowledge of Compound interest, annuity,

loan, debenture and sinking funds and attain skills to use these concepts in daily life

BCA Sem-I

B23- CAP- 104	Mathematical Foundations for Computer Science–I (Ms. Damini)	CO1	Students will be able to : Gain the knowledge of set theory, types of sets and operations on sets. Understand various concepts of matrices and determinants, and acquire the cognitive skills to apply different operations on matrices and determinants
		CO2	Have the knowledge of the basic concepts of complex numbers and acquire skills to solve linear quadratic equations.
		CO3	Gain the knowledge of the concepts of Arithmetic progression, Geometric progression and Harmonic progression, and find A.M., G.M. and H.M. of given numbers.
		CO4	Understand the concept of differentiation



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SESSION:2023-24

SUBJECT OUTCOMES

SUBJECT:MUSIC

Department of Music
Session : 2023-24 (Odd Semester)
Subject Outcomes

B.A.SEM. Ist

Paper Code	Paper Name	OUTCOMES
B23-BMV-101	Musicology	Students came to know about the basics of music
CC		Introduced aesthetics and social significance of music
		They came to know the detailed study of Raagas
		They learnt about the short topics.

B.A.SEM. III

MV23	Music Theory	Students came to know about shalies of Classical music
		They came to know the knowledge of Notation System
		Classification and knowledge of Musical Instruments
		They learnt about the Gun Dosh of Gayak.

B.A.SEM. V

MV25	Music Theory	They had learnt Musical History Of Indian Music
		Came to know origin of gharanas of music
		They learnt tuning of Instruments and Demonstration on stage
		They came to know about the time theory.



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**ARYA KANYA MAHAVIDYALYA
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SESSION:2023-24

SUBJECT OUTCOMES

SUBJECT:PHYSICS

PHYSICS DEPARTMENT, SESSION 2023-24
COURSE OUTCOMES (ODD SEMESTER)

Paper code	Paper Name	Outcomes	
B.Sc 1st	Teacher Name	Students will be able to	
(Sem-1) B23- PHY - 101	Dr. Poonam Siwatch (Mechanics) (CC-1/MCC-1)	CO1	Understand thermodynamics of system of particles, conservation of energy and momentum application of both translational and rotational dynamics motions simultaneously in analyzing rolling with slipping.
		CO2	Differentiate between elastic and plastic body. Elastic constants, determination and their physical significance. Torque and its significance.
		CO3	Familiar about the special theory of relativity and its applications. Michelson's Morley experiments and its finding.
		CO4	Analyze the two body Central Force problem and its applications.
B. Com I (Sem- 1) B23- PHY - 104	Mrs. Sanjul Gupta (Physics Fundamental-I) (MDC-1)	CO1	Have knowledge about the nature, scope and impact of physics on technological development of the society.
		CO2	Understand and describe motion of an object in one dimension.
		CO3	Understand and describe the laws of motion and their applications in daily life.
		CO4	.Understand and appreciate the importance of work, power and energy in daily life.

Paper code	Paper Name	Outcomes	
B.Sc 2ND	Teacher Name	Students will be able to	
PH 301	Dr. Poonam Siwatch (Computer Programming & Thermodynamics)	CO1	Know and understand the Computer Organization, Binary Representation, Algorithm development, Flowchart, Programming in Fortran.
		CO2	Create algorithms, Draw flowcharts and Write programs in FORTRAN for any given problem.
		CO3	Learn and understand the Thermodynamics system and laws of thermodynamics, Carnot cycle, Carnot theorem, Kelvin scale, Joule Thomson Effect, Entropy and Liquefaction of gases.
		CO4	Learn about Thermodynamical potentials, Maxwell's thermodynamic relations their physical interpretations.
PH 302	Mrs. Sanjul Gupta (Wave & Optics I)	CO1	Introduce Young's double slit experiment & clearly understand
		CO2	Learn about Thin film, Plane parallel film, production of colours in their films, classification of fringes in films.
		CO3	Introduce Huygen's-Fresnel's theory, Fresnel's assumptions, & half-period zones clearly understand
		CO4	Know about diffraction due to a narrow slit and diffraction due to a narrow wire
		CO5	Learn about resolving power of telescope and a grating difference between prism and grating spectra .

Paper code	Paper Name	Outcomes	
B.Sc 3RD	Teacher Name	Students will be able to	
PH 501	Dr. Poonam Siwatch (Quantum and Laser Physics)	CO1	Know and understand the difference between classical and Quantum Physics, Photoelectric Effect, Compton Effect, De-Broglie Hypothesis, Uncertainty Principle, Schrodinger wave equation.
		CO2	Apply and Solve Schrodinger equation for ground state energy and wave functions of various simple quantum mechanical one dimensional and three dimensional potentials.
		CO3	Familiar with optical phenomena and different concepts related to laser physics, Understand and explain the basic principles of working of LASER.
		CO4	Know and understand the working of He-Ne Laser, Ruby Laser, Semiconductor Laser, understand and appreciate the applications of Lasers in developing LED, Holography, in materials processing, in Medicine, Industry and Military.
PH 502	Mrs. Sanjul Gupta (Nuclear physics)	CO1	Learn about concepts of nuclear physics and nuclear energies and importance of their use for mankind.
		CO2	Understand the relationship between particles & atom, as well as their creation & decay. Relate the structure of atoms & subatomic particles.
		CO3	Understand nuclear composition and elementary particles, charge symmetry and independence, spin dependency and nuclear force
		CO4	Analyze the ideas of basics of nucleus and their energy, nuclear fission and fusion.
		CO5	Distinguish between types of nuclear models.
		CO6	Understand basic principal and classification of reactors.



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SESSION:2023-24

**SUBJECT OUTCOMES
SUBJECT:POLITICAL SCIENCE**



**Political Science
Learning Outcomes (Odd Semester)
Session (2023-24)**

Political Science Department			
Session: 2023-2024			
B.A. 1st SEM (CC)			
B23-POI-101	Principles of Political Science-I	CO:1	Meaning, Nature, Scope, and Significance of Political Science; Relationship of Political Science with Philosophy, History, Economics and Sociology
		CO:2	State: Meaning, Definition and Elements; Origin and Development of the State: Divine Origin Theory, Force Theory, Social Contract Theory and Evolutionary Theory
		CO:3	Functions of the State, State and Society, State and Government, State and Nation
		CO:4	Sovereignty: Meaning, Types and Main Characteristics; Monistic and Pluralist Theories of Sovereignty
B.A.3rd SEM			
PS23	Indian Political Thinkers	CO:1	The students came to know about the basics of Indian political thought.
		CO:2	They had discussed Indian Political thinker's thought and learnt more about valuable methods.
		CO:3	They knew about the Indian Political thinkers.
		CO:4	They had participated in group discussion, tests and other skill development programs.
B.A.5TH SEM			
PS25	International Relations	CO:1	The students came to know about the basics International Relations.
		CO:2	They had learnt about the digital platforms and discussed current issues in the class.
		CO:3	They knew about the current affair and mythology in group discussion and to understand IR approaches.
		CO:4	The qualities of leadership and confidence developed in them.



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Kurukshetra

akmshahabad@yahoo.com



**ARYA KANYA MAHAVIDYALYA
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SESSION:2023-24

SUBJECT OUTCOMES

SUBJECT:PUNJABI

Course Outcomes (Deptt. of Punjabi)

Session 2023-24 (Odd Semester)

B.A. Sem. I

Paper Code	Paper Name		Outcomes
B23-PNB-101	Aadhunik Punjabi Kavita Ate Viharak Punjabi	CO-1	The students understand about the history of Punjabi Poetry and different forms of Punjabi Poetry.
		CO-2	The students acquire the detail knowledge about reading and analysing Punjabi poetry.
		CO-3	Official Terminology enhances the vocabulary of the students.
		CO-4	The students will understand the lack use of Punjabi idioms in daily life.

B.A. Sem. I(M1)

B23-PNB-103	Punjabi Bhasha:Mudhli Jaan-Pachhan	CO-1	Students will be able to understand the grammatical units of Punjabi Language.
		CO-2	Students will understand the sentence structure and practical use of Punjabi Language.
		CO-3	Students will acquire knowledge of Letter Writing and Concise composition.

B.A. Sem. III

EP-23	Elective Punjabi	CO-1	The students acquire the knowledge about Punjabi short stories.
		CO-2	The students are able to understand the writing techniques of short story.
		CO-3	The students acquire the knowledge of different types of Medieval Punjabi poetry as Gurmat Kav, Kissa Var etc.
		CO-4	Grammar part of this semester enhances the knowledge about the role of Meter in the Poetry and different types of Meter.

B.A. Sem. V

EP-25	Elective Punjabi	CO-1	The students become able to understand about various types of poetical writings.
		CO-2	The students acquire the knowledge of writing techniques of essay.
		CO-3	The students acquire the knowledge of different Punjabi poetic forms e.g. Kissa, Var, Jangnama, Gazal, Kaafi etc.
		CO-4	Hindi to Punjabi translation improves the vocabulary the students.


Dr. Simarjeet Kaur
HOD, Department of Punjabi


Dr. (Mrs.) Aarti Trehan
Principal (Offg.)

Principal (offg.)
Arya Kanya Mahavidyalaya
Shahabad Markanda



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Kurukshetra

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**ARYA KANYA MAHAVIDYALYA
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SESSION:2023-24

**SUBJECT OUTCOMES
SUBJECT:SANSKRIT**

सत्रम् 2023-24

ऐच्छिक-संस्कृत-परिणाम

कक्षा-बी० ए० प्रथम तथा द्वितीय सामिसत्र

संस्कृत- पाठयक्रम विशिष्ट परिणाम

संस्कृत-ऐच्छिक-पाठयक्रम के सफल-समापन के पश्चात् विद्यार्थी निम्नलिखित योग्यताओं से युक्त होंगे:-

क्रम सङ्ख्या	परिणाम	परिणाम-वर्णन
1	पा० वि० प० 1	<u>सामाजिक -जागरूकता:-</u> साहित्य का इतिहास, समाज संस्कृति एवं मानव-व्यवहार से सम्बन्ध को समझ पाएंगे।
2	पा० वि० प० 2	<u>लेखन-कौशल:-</u> व्यावसायिक-पेशे सम्बन्धी वाक्य लेखन एवं रचनात्मक लेखन के योग्य होंगे
3	पा० वि० प० 3	<u>सम्प्रेषण-कौशल:-</u> भिन्न-भिन्न पारिस्थितियों में मौखिक एवं गैर-मौखिक सम्प्रेषण (कौशल) का प्रभावपूर्ण प्रयोग करेंगे।
4	पा० वि० प० 4	<u>शोध अनावरण:-</u> भाषा एवं साहित्य में सार्थक-शोध हेतु शोध-प्रविधियों का प्रयोग कर पाएंगे।
5	पा० वि० प० 5	<u>स्थिरता/धैर्य:-</u> नैतिक, सामाजिक, पर्यावरण सम्बन्धी उलझनों के परिणाम का मूल्याङ्कन करने के योग्य होंगे।
6	पा० वि० प० 6	<u>समग्र-विकास:-</u> बहु-सांस्कृतिक-मूल्यों से परिचित होंगे। नैतिक स्तर की एवम् आलोचनात्मक सोच विकसित होगी। सम्पूर्ण-व्यक्तित्व का विकास कर पायेंगे।
7	पा० वि० प० 7	<u>जीवन-पर्यन्त-शिक्षा:-</u> आजीवन व्यावसायिक एवं बौद्धिक विकास के लिए उत्सुक रहेंगे एवं प्रयास करते रहेंगे।
8	पा० वि० प० 8	<u>नेतृत्व एवं समूह में मिलकर कार्य करना:-</u> सक्रिय नेतृत्व क्षमता से युक्त होकर समूह में कार्य कर अपने आवश्यक लक्ष्यों को प्राप्त कर पाएंगे।
9	पा० वि० प० 9	साहित्यिक-सन्दर्भों की प्रभावपूर्ण/कौशलपूर्ण व्याख्या करने के योग्य होंगे।
10	पा० वि० प० 10	मनो-सामाजिक-बदलाव सम्बन्धी ज्ञान प्राप्त करेंगे।
11	पा० वि० प० 11	इस प्रकार विद्यार्थी का सामाजिक, आत्मिक, राजनैतिक, नैतिक, व्यावसायिक, आर्थिक विकास होगा एवं वह "मनुर्भव" वाक्य को सार्थक कर पाएगा।

इत्यादयः

सत्रम् 2023-24

ऐच्छिक-संस्कृत-पाठ्यक्रम परिणाम
कक्षा-बी० ए० तृतीय तथा चतुर्थ सामिसत्र
संस्कृत-पाठ्यक्रम विशिष्ट परिणाम

संस्कृत-ऐच्छिक-पाठ्यक्रम के सफल-समापन के पश्चात् विद्यार्थी निम्नलिखित योग्यताओं से युक्त होंगे:-

क्रम संख्या	परिणाम	परिणाम-वर्णन
1	पा० वि० प० 1	सामाजिक -जागरूकता:- साहित्य का इतिहास, समाज संस्कृति एवं मानवीय व्यवहार से सम्बन्ध का ज्ञान होगा।
2	पा० वि० प० 2	अन्तः-भाषिक सम्बन्ध भाषाओं में प्रयुक्त परिभाषिक शब्दों के अर्थ (अर्थबोध) का ज्ञान होगा।
3	पा० वि० प० 3	पुरातन एवं नवीन ज्ञान का सदुपयोग:- इतिहास के प्रसिद्ध लेखकों एवं उनकी कृतियों का अध्ययन कर तत्कालीन एवं उनकी वर्तमान प्रासङ्गिकता जान पाएंगे।
4	पा० वि० प० 4	कुशल मूल्याङ्कन:- नैतिक, सामाजिक, पर्यावरण सम्बन्धी, समस्याओं के परिणाम का मूल्याङ्कन करने के योग्य होंगे।
5	पा० वि० प० 5	शोध दृष्टि:- साहित्य तथा भाषा में सार्थक शोध-प्रविधियों का प्रयोग कर पाएंगे।
6	पा० वि० प० 6	सम्प्रेषण-कौशल:- भिन्न-भिन्न परिस्थितियों में मौखिक एवं गैर-मौखिक (लिखित) सम्प्रेषण कौशल, का प्रभावपूर्ण प्रयोग करने के योग्य होंगे।
7	पा० वि० प० 7	अर्थपूर्ण-अभिव्यक्ति:- अपने भावों, विचारों को गागर में सागर भरते हुए संक्षेप में कहने के योग्य होंगे।
8	पा० वि० प० 8	व्यावसायिक-कार्यक्षमता:- व्यावसायिक कार्य-सम्बन्धी वाक्य-लेखन एवं रचनात्मक लेखन के योग्य होंगे।
9	पा० वि० प० 9	साहित्यिक-सन्दर्भों की प्रभावपूर्ण व्याख्या करने के योग्य होंगे।
10	पा० वि० प० 10	व्यक्तित्व-विकास:- विद्यार्थी की नैतिक, एवम आलोचनात्मक सोच विकसित होंगी। अपनी जड़ों से जुड़कर वर्तमान में सामाजिक, आत्मिक, राजनैतिक, व्यावसायिक तथा आर्थिक विकास कर अपने सम्पूर्ण व्यक्तित्व का विकास कर पाएंगे।

इत्यादयः

सत्रम् 2023-24

ऐच्छिक-संस्कृत- पाठ्यक्रम कक्षा- बी० ए० पंचम तथा षष्ठ सामिसत्र संस्कृत- पाठ्यक्रम-विशिष्ट-परिणाम

संस्कृत-ऐच्छिक-पाठ्यक्रम के सफल-समापन के पश्चात् विद्यार्थी निम्नलिखित योग्यताओं से युक्त होंगे:-

क्रम संख्या	परिणाम	परिणाम-वर्णन
1	पा० वि० प० 1	सामाजिक -जागरूकता:- अपने देश के इतिहास, समाज, संस्कृति एवं मानव-व्यवहार के साथ सहित्य का सम्बन्ध समझ पाएंगे।
2	पा० वि० प० 2	प्राचीन-भारतीय-शोध-ज्ञान:- अपने भारत-देश के प्रकाण्ड विद्वानों एवम् उनकी कृतियों, उनमें निहित गूढ रहस्यों का ज्ञान अर्जित कर तत्कालीन एवं आधुनिक समय में उनकी प्रासंगिकता का बोध कर पाएंगे।
3	पा० वि० प० 3	धैर्यता एवं स्थिरता:- नैतिक, सामाजिक, राजनैतिक एवं पर्यावरण से सम्बन्धित समस्याओं के परिणाम एवं उनके समाधान में सक्षम होंगे।
4	पा० वि० प० 4	सम्प्रेषण-कौशल:- वाचन एवं लेखन कौशल में सक्षम होंगे। अपने भावों, विचारों को स्पष्ट रूप से कहने के योग्य होंगे।
5	पा० वि० प० 5	शोध तकनीक:- सहित्य तथा भाषा में सार्थक शोध-प्रविधियों का प्रयोग कर पाएंगे
6	पा० वि० प० 6	साहित्यिक संदर्भों की प्रभावपूर्ण व्याख्या कर पाएंगे।
7	पा० वि० प० 7	समग्र-व्यक्तित्व-विकास:- बहु-सांस्कृतिक-मूल्यों से परिचित होंगे। नैतिक स्तर मजबूत करते हुए आलोचनात्मक चिन्तन विकसित होगा। पारम्परिक एवं आधुनिकता के मिश्रण से अन्तर्वैषयिक विषयों में सम्बन्ध स्थापित करते हुए समग्र-व्यक्तित्व का विकास कर पाएंगे।
8	पा० वि० प० 8	सङ्गणकीय-संस्कृतम्:- व्याकरणिक नियमों के ज्ञान से सामान्य व्यवहार एवं सङ्गणकीय-संस्कृतम् के लिए तैयार होंगे।
9	पा० वि० प० 9	शोध दृष्टि:- भाषा-साहित्य में सार्थक शोध हेतु विभिन्न शोध-प्रविधियों का प्रयोग करने में कुशल होंगे।
10	पा० वि० प० 10	लेखन-कौशल:- औपचारिक, अनौपचारिक वाक्य-लेखन एवं रचनात्मक लेखन के योग्य होंगे।
11	पा० वि० प० 11	नेतृत्व क्षमता :- सक्रिय नेतृत्व गुणों से युक्त होकर समूह में कार्य कर अपने सद-उद्देश्यों को प्राप्त करेंगे।
12	पा० वि० प० 12	आजीवन-शिक्षा:- जीवन पर्यन्त बौद्धिक, आत्मिक एवं व्यावसायिक विकास हेतु प्रयासरत रहेंगे। "वसुधैव-कुटुम्बकम्" की भावना से कार्य कर स्व एवं सर्वहित में अग्रसर रहेंगे।

इत्यादयः



ARYA KANYA MAHAVIDYALYA, SHAHABAD MARKANDA

A Premier Institution, Affiliated to Kurukshetra University,

Kurukshetra

akmshahabad@yahoo.com



ARYA KANYA MAHAVIDYALYA

SHAHABAD MARKANDA

SESSION:2023-24

SUBJECT OUTCOMES

SUBJECT:ZOOLOGY

Mr. Sachin

BSc 3rd year learning outcomes

Sr no.	Paper I-Environmental Biology
	Student will be able to
	1.Learn the concepts of ecology
	2. Explain about factor affecting the environment
	3. Study the major ecosystem of the World.
	4.understand the concept of food chain and ecological pyramids
	5.Able to explain biogeochemical cycles
	6.Able to understand concepts of population
	7.learn the concepts of biodiversity and conservation of natural resources
	8.clear the concepts of migration in fishes
	9. Understand the concept of parental care in animals
	explain 10. explain about population interaction
	11.Understand the various types of environmental pollution
	PaperII- Evolution and Developmental Biology
	1.Study the concept of origin of life
	2.Learn and clear the concept of organic evolution.
	3.Study the theories of organic evolution
	4.Able to explain micro, macro and mega evolution

	5.Learn the concept of species
	6.Learn the phylogeny of horse .
	7.Study the evolution of man
	8.Able to explain concept of developmental biology.
	9.learn about fertilization process
	10.Clear the concept of blastulation process in frog and chick
	11.Learn the gastrulation in frog and chick
	12.Able to explain primary organizers
	13.study extra-embryonic membranes
	14.Clear the concept of competence, determination and differentiation
	15.learn the concept of regeneration