



**ARYA KANYA MAHAVIDYALYA, SHAHABAD MARKANDA**

A Premier Institution, Affiliated to Kurukshetra University,

Kurukshetra

[akmshahabad@yahoo.com](mailto:akmshahabad@yahoo.com)



**ARYA KANYA MAHAVIDYALYA**

**SHAHABAD MARKANDA**

**SESSION:2024-25**

**SUBJECT OUTCOMES**

**UNDER-GRADUATE**

**EVEN SEMESTER**



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**ARYA KANYA MAHAVIDYALYA  
SHAHABAD MARKANDA  
SESSION:2024-25**

**SUBJECT OUTCOMES  
DEPARTMENT:BOTANY**

**LEARNING OUTCOMES**  
**EVEN SEMESTER (2024-25)**

**B.Sc. Botany – 2<sup>nd</sup> Sem: -**

After completing this course, the learner will be able to:

1. Students will gain knowledge about taxonomy, including the rules of nomenclature and other essential aspects.
2. Students will acquire a conceptual understanding of angiosperm classification systems and the diversity of families within them.
3. Students will gain knowledge about Ecology and Environmental interactions.
4. Students will acquire a conceptual understanding of ecosystem structure, environmental pollution and biodiversity conservation.
5. Students will gain the knowledge about the diagnostic features, morphology, internal structure, economic value of angiosperms and ecological concepts and biodiversity indices.

## **B. Sc. Botany – 4<sup>th</sup> Sem: -**

After completing this course, the learner will be able to:

1. Students will understand the fundamental characteristics of cells.
- 2: Students will acquire comprehensive knowledge about cell division and the central dogma of molecular biology.
- 3: Students will learn about the principles of inheritance in biology.
- 4: Students will develop a thorough understanding of mutations, chromosomal aberrations, and the concept of linkage.
5. Students will be able to understand the basic principles of laws of inheritance, stains & staining techniques, cell division processes, chromosome mapping, and chromosomal aberration.



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**ARYA KANYA MAHAVIDYALYA**

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**SESSION:2024-25**

**SUBJECT OUTCOMES**

**DEPARTMENT:CHEMISTRY**



## ARYA KANYA MAHAVIDYALYA, SHAHABAD MARKANDA

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### B.SC. 3<sup>RD</sup> YEAR, CHEMISTRY

PAPER CODE	TEACHER NAME	STUDENTS WILL ABLE TO	
CH-304	MS. SHANKY	CO1	Concepts of hard and soft acids
		CO2	Study of bioinorganic chemistry
		CO3	Difference between myoglobin and hymoglobin
		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



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		CO5	Learns various classes of proteins & understand their structures
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**ARYA KANYA MAHAVIDYALYA  
SHAHABAD MARKANDA**

**SESSION:2024-25**

**SUBJECT OUTCOMES**

**DEPARTMENT:COMMERIAL ARTS,  
DESIGNING & PAINTING**

**SUBJECT OUTCOMES**

**COMMERCIAL ART (2024-2025)**

**ODD SEMESTER**

Course code or Paper code	Paper Name	Outcomes	
<b>BA Sem-I (Major) Course code: B23-COA-101, Course type : CC-1,MCC1</b>			
<b>Paper Theory</b>	Fundamental 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 Colour – Colour Theory
<b>Paper code</b>	<b>Paper Name</b>	<b>Outcomes</b>	
<b>BA Sem- 3<sup>rd</sup> ( Major) Paper code:B23-COM-301 , Course type-CC3, MCC-4</b>			
<b>Paper</b>	Advertising and Society (Theory)	CO1	Understanding the basic knowledge of Commercial art ,advertising as an art and different form of Advertising.
		CO2	Explain the communication process
		CO3	Describe the relation of Advertising and society.
		CO4	Describe the importance of Advertising in the society.

Paper code	Paper Name	Outcomes	
<b>BA Sem- 5<sup>th</sup></b>			
<b>Paper A</b>	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

<b>Paper-B</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
<b>Paper-B</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
<b>Paper-B</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	
<b>BA Sem- 6<sup>th</sup></b>			
<b>Paper A</b>	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
<b>Paper-B</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
<b>Paper-B</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
<b>Paper-B</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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**SESSION:2024-25**

**SUBJECT OUTCOMES**

**DEPARTMENT:COMMERCE**



Estd. 1968

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## B.COM SUBJECT OUTCOMES

### EVEN SEMESTER

(2024-25)

<b>B.Com Sem.-II (General)</b>			
<b>B23-COM-201</b>	<b>COMPUTERISED ACCOUNTING SYSTEM</b>	<b>CLO-1</b>	The students will be able to understand the concept of computerized accounting and be familiar with accounting system
		<b>CLO-2</b>	The Students will be able to create company ledger, voucher in accounting software
		<b>CLO-3</b>	The Students will be able to prepare financial statements in Tally
		<b>CLO-4</b>	The Students will be able to comply with Tax regulations –GST , Income Tax etc.
<b>B23-COM-202</b>	<b>COMPANY LAW</b>	<b>CLO-1</b>	The students will be able to understand the concept of company as form of business organization , Regulatory framework and the process of incorporation
		<b>CLO-2</b>	The Students will be able to understand the important documents of the company and their operational usefulness
		<b>CLO-3</b>	The Students will understand about the procedure of raising capital, knowing rights and duties of directors and company secretary.
		<b>CLO-4</b>	The Students will be able to understand regulatory provisions relating to dividend decision and winding up of the company.
<b>B23-COM-203</b>	<b>PRINCIPLES OF MARKETING</b>	<b>CLO-1</b>	The students will be able to understand the basic concept of Marketing and assess the marketing environment
		<b>CLO-2</b>	The Students will be able to understand to analysis the consumer behaviour in the present scenario and marketing segmentation



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		<b>CLO-3</b>	The Students will be able to understand the discover the new product development and factors development and factors affecting the price of product in the present context
		<b>CLO-4</b>	The students will be able to understand the promotional and distribution strategies along with the recent development in the field of marketing.
<b>B.Com Sem-4 (General)</b>			
<b>B23-COM-401</b>	<b>COROPORATE ACCOUNTING-2</b>	<b>CLO-1</b>	The Students will be able to understand about valuation of goodwill and shares.
		<b>CLO-2</b>	The Students will be able to understand and analyze the accounts of banking and insurance companies.
		<b>CLO-3</b>	The Students will be able to understand and evaluate the technique of valuation of consolidated balance sheet of holding company and able to analysis the concept of liquidation of company.
		<b>CLO-4</b>	The Students will be able to understand about preparation of bank accounts, insurance company, and holding company accounts independently
<b>B23-COM-403</b>	<b>INCOME TAX-II</b>	<b>CLO-1</b>	The Students will be able to understand the deductions from gross total income of individuals, HUFs and firms.
		<b>CLO-2</b>	The Students will be able to compute the total income and tax liability of individuals, HUFs and Firms
		<b>CLO-3</b>	The Students will be able to understand the filing of returns and working of Income Tax department..
		<b>CLO-4</b>	The Students will be able to learn and understand the assessments, defaults and consequences.
<b>B-23-COM-403</b>	<b>ENTREPRENEURSHIP DEVELOPMENT</b>	<b>CLO-1</b>	The Students will be able to understand the development of entrepreneurship as a field of study and as a profession.
		<b>CLO-2</b>	The Students will be able to understand comprehend the MSMEs in the development of the Indian economy.



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		<b>CLO-3</b>	The Students will be able to understand to analyze the business decisions involved in starting a new business venture
		<b>CLO-4</b>	The Students will be able to determine the institutions supporting entrepreneurs
<b>B23-VOC-233</b>	<b>OFFICE MANAGMENT</b>	<b>CLO-1</b>	The students will understand the concept of Office Management
		<b>CLO-2</b>	The students will able to comprehend the planning system and routine
		<b>CLO-3</b>	The students will understand that how to manage records in the office
		<b>CLO-4</b>	The Students will be able to Supervise the office and motivating the Office Staff
<b>B.Com Sem-6 (General)</b>			
<b>BC-601</b>	<b>MANAGEMENT ACCOUNTING</b>	<b>CLO-1</b>	The student will be able to understand about management accounting concepts and techniques
		<b>CLO-2</b>	The student will be able to understand about the concept of fund flow and cash flow statements.
		<b>CLO-3</b>	The student will be able to get knowledge about capital budgeting and decision making techniques
		<b>CLO-4</b>	The student will be able to get knowledge about the preparation of various kinds of budgets
<b>BC-602</b>	<b>FUNDAMENTALSOFF INSURANCE</b>	<b>CLO-1</b>	The students will be able understand about the nature, objectives and types knowledge of insurance
		<b>CLO-2</b>	The student will be able to understand about concept of fire insurance, marine insurance, accidental and motor insurance
		<b>CLO-3</b>	The student will be able to analyze the procedures involved in life insurance
		<b>CLO-4</b>	The student will be able understand about the role of insurance intermediaries
<b>BC-603</b>	<b>HUMAN RESOURCE MANAGEMENT</b>	<b>CLO-1</b>	The student will be able to understand the concept and functions of HRM
		<b>CLO-2</b>	The student will be able to understand the inter linkages among the pivotal functions concerning procurement of



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			human resources viz. human resource planning, human resource policy, job analysis, recruitment, selection, induction and placement.
		<b>CLO-3</b>	The student will be able to get the knowledge of different aspects concerning maintenance, developments and control of human resources in an organization.
		<b>CLO-4</b>	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.
<b>BC-604</b>	<b>INCOME TAX-II</b>	<b>CLO-1</b>	The student will be able understand about deductions under section 80C to 80U in computing total income
		<b>CLO-2</b>	The student will able to understand about deduction of tax at source; advance payment of tax and income tax authorities and their powers
		<b>CLO-3</b>	The student will able to assess the income of an individual and the tax payable
		<b>CLO-4</b>	The student will be able to gain practical knowledge in the computation of tax for different types of assesses
<b>BC-605</b>	<b>BUSINESS ENVIRONMENT</b>	<b>CLO-1</b>	The student will be able to understand about the concept, significance and changing dimensions of business environment
		<b>CLO-2</b>	The student will be able to identify various types of business environment and tools for scanning the environment
		<b>CLO-3</b>	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
		<b>CLO-4</b>	The student will be able to understand about the importance of multinational corporations, foreign collaboration and international institutions in business



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<b>BC-606</b>	<b>RETAIL MANAGEMENT</b>	<b>CLO-1</b>	The student will be able to understand the conceptual framework and strategic planning for retailing
		<b>CLO-2</b>	The student will be able to comprehend different retailing formats and plan location of a retail store
		<b>CLO-3</b>	The student will be able to get knowledge of customer service and financial management in retail organizations.
		<b>CLO-4</b>	The student will be able to handle issues concerning information technology, social ethical and legal aspect in retailing.
<b>B.Com Sem-6 (Computer Application)</b>			
<b>BC-601</b>	<b>MANAGEMENT ACCOUNTING</b>	<b>CLO-1</b>	The student will be able to understand about management accounting concepts and techniques
		<b>CLO-2</b>	The student will be able to understand about the concept of fund flow and cash flow statements.
		<b>CLO-3</b>	The student will be able to get knowledge about capital budgeting and decision making techniques
		<b>CLO-4</b>	The student will be able to get knowledge about the preparation of various kinds of budgets
<b>BC-602</b>	<b>FUNDAMENTALS OF INSURANCE</b>	<b>CLO-1</b>	The student will be able understand about the nature, objectives and types knowledge of insurance
		<b>CLO-2</b>	The student will be able to understand about concept of fire insurance, marine insurance, accidental and motor insurance
		<b>CLO-3</b>	The student will be able to analyze the procedures involved in life insurance
		<b>CLO-4</b>	The student will be able understand about the role of insurance intermediaries
<b>BC-603</b>	<b>HUMAN RESOURCE MANAGEMENT</b>	<b>CLO-1</b>	The student will be able to understand the concept and functions of HRM
		<b>CLO-2</b>	The student will be able to understand the inter linkages among the pivotal functions concerning procurement of



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			human resources viz. human resource planning, human resource policy, job analysis, recruitment, selection, induction and placement.
		<b>CLO-3</b>	The student will be able to get the knowledge of different aspects concerning maintenance, developments and control of human resources in an organization.
		<b>CLO-4</b>	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.
<b>BC-604</b>	<b>INCOME TAX-II</b>	<b>CLO-1</b>	The student will be able understand about deductions under section 80C to 80U in computing total income
		<b>CLO-2</b>	The student will able to understand about deduction of tax at source; advance payment of tax and income tax authorities and their powers
		<b>CLO-3</b>	The student will able to assess the income of an individual and the tax payable
		<b>CLO-4</b>	The student will be able to gain practical knowledge in the computation of tax for different types of assesses

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**SESSION:2024-25**

**SUBJECT OUTCOMES**

**DEPARTMENT:COMPUTER SCIENCE**

**Subject Outcomes (2024 – 25) EVEN Semester**

**Computer Science**

<b>Paper Code</b>	<b>Paper Name</b>		<b>Course Outcomes</b>
<b>BCA Sem-2 (NEP)</b>			
B23-CAP-201 (Major)	Object Oriented Programming using C++	CO1	Learn the input/output statements and functions in C++
		CO2	Learn the various concepts of operator overloading and inheritance
		CO3	Get familiar with concepts of virtual functions and exception handling in C++ language.
		CO4	Get familiar with OOPS concepts along with constructors and destructors in C++ language.
		CO5	To implement the programs based on various concepts of C++.
B23-CAP-202 (Major)	Introduction to Web Technologies	CO1	Learn the basics of web development
		CO2	Understand different types of web pages and web sites.
		CO3	Implement HTML and CSS for web page designing.
		CO4	Understand the design of web crawlers and search engines
		CO5	To implement the programs based on various concepts of web development
B23-CAP-203 (Major)	Concepts of Operating Systems	CO1	Understand the basic concepts of operating systems and their services along with process management.
		CO2	Understand the concept of process scheduling and acquire knowledge of process synchronization
		CO3	Learn about memory management and virtual memory concepts
		CO4	Learn to work with directory structure and security aspects
		CO5	To implement the programs based on the operating system.
B23-SEC-201	Cloud Computing Skills	CO1	Get acquainted with the term Cloud computing.
		CO2	Understand various types of free and commercial clouds
		CO3	Understands various types of cloud services like SaaS. PaaS and IaaS.
		CO4	Know how the Cloud Computing is changing soft-ware industry
		CO5	To create and use Cloud
<b>BCA Sem-4 (NEP)</b>			
B23-CAP-401 (Major)	Data Structures and Applications	CO1	Learn the basics of data structure and algorithm complexities.
		CO2	Acquire knowledge of arrays and strings
		CO3	Understand the idea of implementation for linked lists and stacks.
		CO4	Learn various searching and sorting techniques along with the implementation of queues.

B23-CAP-402 (Major)	Front-end Development	CO1	Understand the basic concept of objects and regular expressions in JavaScript
		CO2	Acquire knowledge of JavaScript events and DOM
		CO3	Learn to use forms and BOM in JavaScript;
		CO4	Get familiar with jQuery
B23-CAP-403 (Major)	Computer Graphics	CO1	Understand the concepts of computer graphics
		CO2	Learn and implement point, line, and circle drawing algorithms.
		CO3	Acquire knowledge of two-dimensional transformations and line clipping algorithms.
		CO4	Understand 3-D graphics concepts and acquire skills for designing 3-D graphics
B23-VOC-231	E-Commerce	CO1	Find an analytical framework to understand the emerging world of E-Commerce
		CO2	Develop the understanding towards various Business Models
		CO3	Develop an understanding relating to Legal & Regulatory Environment and Security issues of E-Commerce
		CO4	Understand fundamental principles of e-business and E-commerce.
<b>BCA Sem-6</b>			
361	Web Designing Using Advanced Tools	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
362	Operating System-II	CO1	This course is a constructive study of an operating system. Key topics include the kernel, process and memory managers, file access, I/O driver, scheduler, etc
		CO2	Throughout the course, a seminar approach will be adopted and much time will be given to group discussion simulating an industrial environment
		CO3	Students are collectively expected to analyze and document an operating system using MacOS, UNIX/Linux like, Windows, Netware and mainframe as practical examples
363	Computer Graphics	CO1	Discuss various algorithms for scan conversion and filling of basic objects and their comparative analysis
		CO2	Use of geometric transformations on graphics objects and their application in composite form
		CO3	Extract scene with different clipping methods and its transformation to graphics display device
		CO4	Explore projections and visible surface detection techniques for display of 3D scene on 2D screen
		CO5	Render projected objects to naturalize the scene in 2D view and use of illumination models for this
364	Internet	CO1	Analyze a web page and identify its elements and attributes

	Technologies	CO2	Create web pages using XHTML and Cascading Style Sheets
		CO3	Build dynamic web pages using JavaScript (Client side programming).
		CO4	Create XML documents and Schemas
365	Advanced Programming with Visual Basic	CO1	This course is a Visual BASIC programming language with object-oriented programming principles
		CO2	Emphasis is placed on event-driven programming methods, including creating and manipulating objects, classes, and using object-oriented tools such as the class debugger. Upon completion, students should be able to design, code, test, debug, and implement objects using the appropriate environment
		CO3	This course has been approved for transfer under the CAA as a premajor and/or elective course requirement.
366	Programming in Core Java	CO1	Use an integrated development environment to write, compile, run, and test simple object-oriented Java programs
		CO2	Read and make elementary modifications to Java programs that solve real-world problems
		CO3	Validate input in a Java program.
		CO4	Identify and fix defects and common security issues in code
		CO5	Document a Java program using Javadoc.

#### **B.Sc. (Phy. Sc/ Life Sc.) Sem-II (NEP)**

CC-1 MCC-3 B23-CSE-201 (Major)	Web Development	CO1	Learn the basics of web development
		CO2	Understand different types of web pages and web sites.
		CO3	Implement HTML and CSS for web page designing.
		CO4	Understand the design of web crawlers and search engines
		CO5	To implement the programs based on various concepts of web development
CC-M1 B23-CSE-203 (Minor)	Programming methodologies	CO1	be familiar with fundamental programming concepts and methodology
		CO2	be familiar with good programming practice
		CO3	be able to write simple programs in the corresponding programming language to solve a task, given the constraints on the inputs
		CO4	. be able to differentiate between logical errors, syntax errors, and run-time errors
		CO5	be able to write modularized code

#### **B.Sc. Phy. Sc. Sem-IV (NEP)**

B23-CSE-401	Data Mgmt, with DBMS	CO1	Learn basic components of database along with its functions & components.
		CO2	Understand Data Models
		CO3	Understand SQL as a query language & learn the concept of Relational Algebra & Calculus

		CO4	Understand RDBMS and learn to Normalize databases.
<b>B.Sc. NM Sem-6 Computer Sc.</b>			
P-1	RDBMS	CO1	Understand Relational Model – Keys & Data Constraints. Also compare RDBMS with Hierarchical & Network Model
		CO2	Understand RDBMS concepts – keys, Data Contraints, etc.
		CO3	Able to understand role of Relational algebra & Tuple/domain calculus.
		CO4	Able to build efficient Databases using Normalization
		CO5	Able to use SQL queries & Design programs using PL/SQL constructs.
P-2	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.
<b>B.Com CAV Sem-6</b>			
BC VOC-605	Social Networking and Data Analytics	CO1	Measure and prove ROI and marketing impact
		CO2	Make better strategic and business decisions
		CO3	Track marketing teams' efficiency
		CO4	Compare your social media performance against competitors
BC VOC-606	Enterprise Resource Planning	CO1	Make basic use of Enterprise software, and its role in integrating business functions
		CO2	Analyze the strategic options for ERP identification and adoption
		CO3	Design the ERP implementation strategies
		CO4	Create reengineered business processes for successful ERP implementation
<b>BCA/ BSc LS/ BSc PS/ FD/ BA Sem-II (NEP)</b>			
B23-SEC-201	Cloud Computing Skills	CO1	Get acquainted with the term Cloud computing.
		CO2	Understand various types of free and commercial clouds
		CO3	Understands various types of cloud services like SaaS. PaaS and IaaS.
		CO4	Know how the Cloud Computing is changing soft-ware industry
		CO5	To create and use Cloud



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Kurukshetra

[akmshahabad@yahoo.com](mailto:akmshahabad@yahoo.com)



**ARYA KANYA MAHAVIDYALYA  
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**SESSION:2024-25**

**SUBJECT OUTCOMES  
DEPARTMENT:ECONOMICS**



**Economics**  
**Learning Outcomes ( Even Semester)**  
**Session (2024-25)**

**Economics Department**

Session: 2024-2025

**B.A. 2nd SEM**

Paper Code	Paper Name	Outcomes	
B23-ECO-201	MACROECONOMICS-I	CO:1	Have insight of basic concepts of macroeconomics - it's nature and scope, methodology; National Income and circular flow of national income in an Economy.
		CO:2	Have understanding of Macroeconomics behaviour in terms of classical theory of Employment, Say's law, Keynes theory of equilibrium level of income and Employment.
		CO:3	Have knowledge about consumption behaviour at Macroeconomics level, Keynes psychological law of consumption, hypotheses about long run income - consumption relationship.
		CO:4	Have understanding about capital and investment, Decision to Invest at macro economic level, determinants of induced investment.
		CO:5	
		CO:6	

**B.A. 4th SEM**

B23-ECO-401	MACROECONOMICS-II	CO:1	Analyze the given situations in a perfect market on a micro economic level.
		CO:2	Understand the internal structure and assumptions of the different analytical frameworks of market conditions.
		CO:3	Analyze given situations in a monopoly and monopolistic competition markets on a micro economic level.
		CO:4	Analyze given situations in various markets on a micro economic level.
		CO:5	Apply micro economic tools to solve real life problem especially under uncertainty and game theory



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A Premier Institution, Kurukshetra University, Kurukshetra  
[akmshahabad@yahoo.com](mailto:akmshahabad@yahoo.com)

**B.A. 6th SEM**

B.A. 6th SEM			
EC26	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.

*Sara*  
Principal (offg.)  
Arya Kanya Mahavidyalaya  
Shahabad Markanda



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A Premier Institution, Kurukshetra University, Kurukshetra  
akmshahabad@yahoo.com

**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 maste allowing learners to progress at their own pace

*Usw*  
Principal (offg.)  
Arya Kanya Mahavidyalya  
Shahabad Markanda



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A Premier Institution, Affiliated to Kurukshetra University,

Kurukshetra

[akmshahabad@yahoo.com](mailto:akmshahabad@yahoo.com)



**ARYA KANYA MAHAVIDYALYA**

**SHAHABAD MARKANDA**

**SESSION:2024-25**

**SUBJECT OUTCOMES**

**DEPARTMENT:ENGLISH**

Paper code	Paper Name	Introduction to Prose and Composition	
<b>BA Sem-II</b>			
B23- ENG- 201	English Major	CO1	The students will be able to understand various components of prose.
		CO2	Perusal of essays will enrich their knowledge of different prose styles.
		CO3	The students will be able to write paragraphs, essays, letters, and précis.
		CO4	The students will be able to write speeches and resume.
<b>BA Sem-II Language and Literature-II</b>			
B23- ENG- 203-	English Minor	CO1	The students will understand the significance of literary essays.
		CO2	They will be able to appreciate literariness embedded into the text.
		CO3	They will understand rich Indian culture through short stories.
		CO4	They will be able to understand in intricacies of grammar.

BA Sem IV		Introduction to Drama and Intermediate Grammar	
B23- ENG- 401	English Major	CO1	The students will be able to understand various components of drama.
		CO2	They will have knowledge of different dramatic styles.
		CO3	The students will be able to write paragraphs, essays, letters, and précis.
		CO4	The students will be able to write speeches and resume.
<b>BA Sem-VI</b>			
	English Compulsory	CO1	Enhance comprehension skills, presentation skills, group discussion skills etc
		CO2	Enhance professional Writing skills.
		CO3	Enhance Vocabulary Skills.
		CO4	Understand the Genre of Play/Drama
		CO5	Create literature sensibility and learn life skills through Shakespeare Play The Merchant of Venice.
		CO6	Develop confidence for communicating in English and create interest for the life-long learning of English language.
AEC SEM 2	<b>English Language and Communication Skills: Level 2</b>		

B23- AEC-2	English Language and Communication Skills Level 2	CO1	The students will be introduced to the phonetics and syllables in English.
		CO2	They will learn various components of speaking skills and their use in communication.
		CO3	They will learn the practical use of punctuation and capitalization.
		CO4	They will have the comprehensive knowledge of tenses.
SEM III AEC IV	<b>English Language and Communication Skills: Level 4</b>		
B23- AEC-4	English Language and Communication Skills: Level 4	CO1	The students will enhance their vocabulary by learning formation of words.
		CO2	They will learn the various types of sentences.
		CO3	They will comprehend the public speaking techniques and art of oratory.
		CO4	They will learn practical use of coherence in writing and contextual vocabulary
SEM IV VOC I	<b>International English Language Proficiency Development</b>		
<b>B23- VOC- 225</b>	VOC ENGLISH	CO1	Demonstrate a proficient level of understanding and usage of English in various international contexts.
		CO2	Communicate effectively and confidently in English, both orally and in written form.
		CO3	Understand and interpret complex English texts suitable for advanced academic or professional purposes.
		CO4	Apply appropriate language strategies to participate in diverse interpersonal exchanges and public communications.



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A Premier Institution, Affiliated to Kurukshetra University,

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[akmshahabad@yahoo.com](mailto:akmshahabad@yahoo.com)



**ARYA KANYA MAHAVIDYALYA  
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**SESSION:2024-25**

**SUBJECT OUTCOMES**

**DEPARTMENT:FASHION DESIGNING**



**ARYA KANYA MAHAVIDYALYA, SHAHABAD MARKANDA**

A Premier Institution, Kurukshetra University, Kurukshetra

[akmshahabad@yahoo.com](mailto:akmshahabad@yahoo.com)

## B.Sc. Fashion Designing 2024-25

### Subject wise outcomes

Paper code	Paper Name	Outcomes	
B.Sc. Fashion Designing Sem. 2			
B-23-FDS-201	Concept of fashion	CO1	Understand the concept of origin of clothing
		CO2	impart knowledge to students about the different styles of fashion
		CO3	Understand knowledge about fashion Psychology.
B-23-FDS-202	Basic of Clothing Construction	CO1	Understand the fundamentals of professional sewing
		CO2	Understand the fundamentals of apparel construction techniques
		CO3	Learns basic cutting, sewing and finishing by hand and by machine
B-23-FDS-203	Fabric Construction	CO1	Understand the conversion of yarns, and fibres, into a fabric
		CO2	Understand the methods of interlacing
		CO3	Aware about characteristics having material and method employed

Estd. 1968



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[akmshahabad@yahoo.com](mailto:akmshahabad@yahoo.com)

Paper code	Paper Name	Outcomes	
Bachelor of Fashion Designing Sem. 4			
B-23-FDS-401	Textile Chemistry	CO1	Learn about Spinning
		CO2	Knowledge of fiber, yarn and fabric
		CO3	Also understand the various kinds of textiles manufacturing
B-23-FDS-402	Women Clothing-II	CO1	Understand the terminologies related to women clothing
		CO2	Learn about clothing for special needs
		CO3	Knowledge of drafting, construction and fitting problems
B-23-FDS-403	Apparel Production draping and grading	CO1	Know about draping and their techniques
		CO2	Understand the construction of new design
		CO3	Knowledge about Grading

Estd. 1968

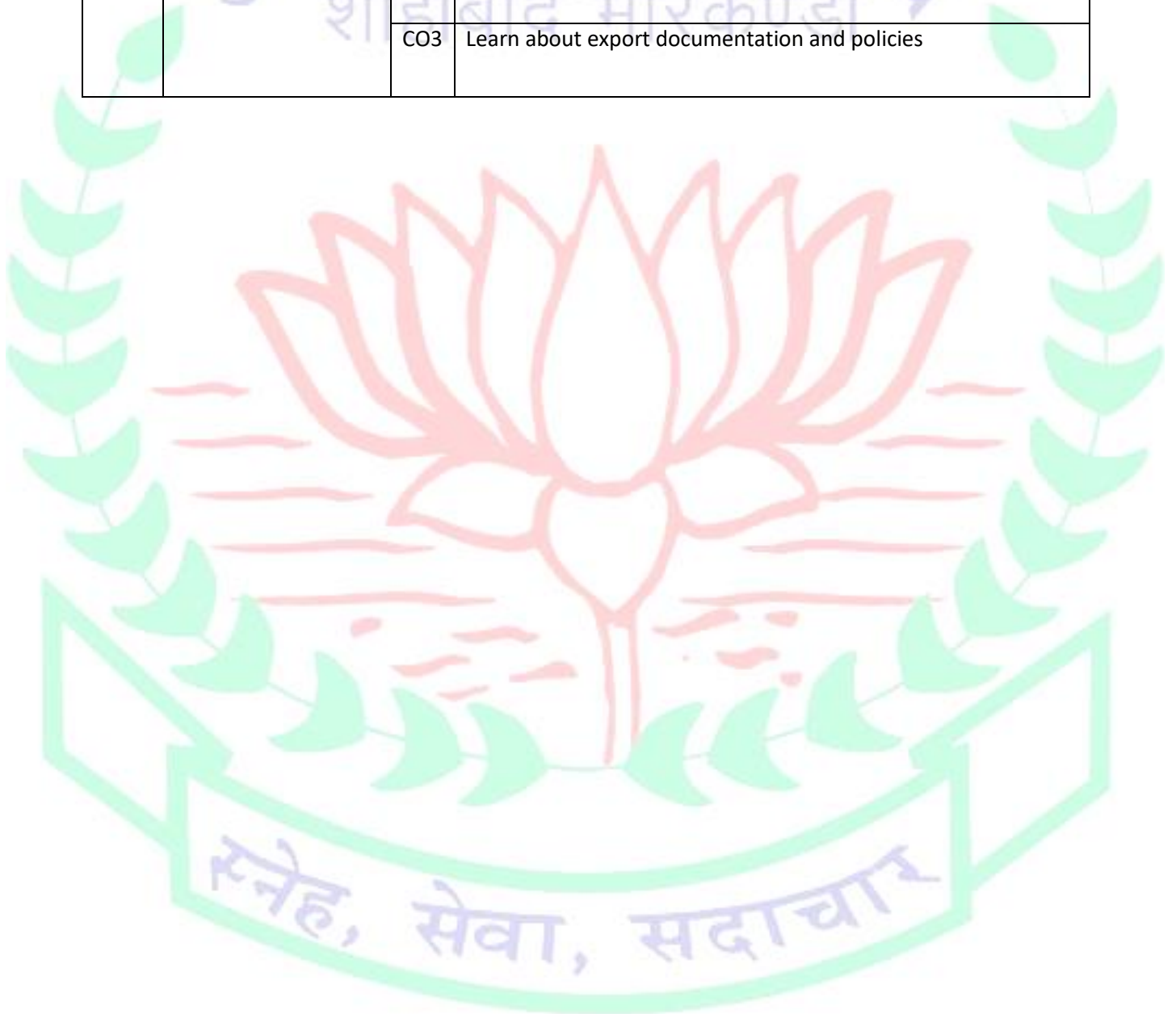


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A Premier Institution, Kurukshetra University, Kurukshetra

[akmshahabad@yahoo.com](mailto:akmshahabad@yahoo.com)

Paper code	Paper Name	Outcomes	
B.Sc. Fashion Designing Sem. 6			
306	Marketing and Merchandising	CO1	Learn about retail operation
		CO2	Understand about fashion forecasting
		CO3	Learn about export documentation and policies



Estd. 1968



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## **B.Sc. Fashion Designing 2024-25**

### **(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

**Estd. 1968**



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**ARYA KANYA MAHAVIDYALYA  
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**SESSION:2024-25**

**SUBJECT OUTCOMES**

**DEPARTMENT:HEALTH & PHYSICAL  
EDUCATION**



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[akmshahabad@yahoo.com](mailto:akmshahabad@yahoo.com)

## Subject Outcomes

**Even Semesters for the Session 2024-25**

### **Health and Physical Education**

Paper code	Paper Name		Outcomes
2 <sup>nd</sup> Semester Core Course - 2 B23- PED -201	Basic Anatomy and Physiology	CO-1	Describe the Anatomy, Physiology and structure of Cells.
		CO-2	Explain the structure of Joints and Muscular System
		CO-3	Illustrate the basic knowledge about Anatomy, Physiology of Circulatory and Digestive Systems of human body
		CO-4	Explain the Anatomy, Physiology of Respiratory and Excretory Systems of human body
4 <sup>th</sup> Semester Core Course - 4 B23- PED -401	Basics of Sports Fitness	CO-1	Describe meaning, importance and norms of Physical Fitness
		CO-2	Illustrate meaning, principles and methods of warming up
		CO-3	Explain meaning, principles and methods of cooling down
		CO-4	Describe the health related and skill related components of fitness
BA Sem-6 PE-26	Health & Physical Education	CO-1	To the concept of Motivation & Socialization and its relevance in sports Performance.
		CO-2	To Study the concept of Sports training and Doping
		CO-3	To know the concept of Biomechanics and its application in sports.
		CO-4	To understand the Anatomy & Physiology of digestion system and exercise. Practical Approach of Yoga, pranayams & First Aid. Further studies in Physical Education.



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[akmshahabad@yahoo.com](mailto:akmshahabad@yahoo.com)



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**SESSION:2024-25**

**SUBJECT OUTCOMES  
DEPARTMENT:HINDI**

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akmshahabad@yahoo.com

**पाठ्यक्रम के परिणाम: सत्र (2024-25)****सम सेमेस्टर****बी० ए० प्रथम वर्ष (सेमेस्टर 2)**

पेपर कोड	पेपर का नाम		पाठ्यक्रम के परिणाम
B23 HIN- 201	Major	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 बोलियों के विषय में ज्ञान समृद्ध होना।
B23 HIN- 201	Minor	CO-1	अधिकारिक हिंदी व्याकरण से परिचित कराया जाएगा।
		CO-2	कार्यालयी हिन्दी का ज्ञान कराना।
		CO-3	सम्प्रेषण में लेखन कौशल का विकास।
B23- AEC- HIN- 221	AEC Level-II	CO-1	हिंदी भाषा में संचार से परिचित कराया जाएगा।
		CO-2	संचार का व्यापक ज्ञान होगा।

**बी० ए० द्वितीय वर्ष (सेमेस्टर 4)**

B23 HIN- 401	Major	CO-1	पाश्चात्य काव्यशास्त्र की जानकारी
		CO-2	समस्यामूलक नाटक का बोध।
		CO-3	हिन्दी साहित्य की जानकारी।
		CO-4	प्रयोजनमूलक हिन्दी में दक्षता।
B23- AEC- HIN- 421	AEC Level-4	CO-1	नेतृत्व के विभिन्न प्रकारों के बारे में जानेंगे।
		CO-2	मूल्यों और शिष्टाचार के महत्व के बारे में जानेंगे।
		CO-3	समय प्रबंधन का व्यावहारिक उपयोग सीखेंगे।

**बी० ए० तृतीय वर्ष (सेमेस्टर 6)**

HIN-26	हिन्दी अनिवार्य	CO-1	हरियाणवी लोक साहित्य का ज्ञान प्रदान कराना।
		CO-2	हिन्दी पत्रकारिता सम्बंधी जानकारी उपलब्ध करवाना।
		CO-3	नव्यत्तर गद्य की नवीन विधाओं का ज्ञान प्रदान कराना।



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Kurukshetra

[akmshahabad@yahoo.com](mailto:akmshahabad@yahoo.com)



**ARYA KANYA MAHAVIDYALYA**

**SHAHABAD MARKANDA**

**SESSION:2024-25**

**SUBJECT OUTCOMES**

**DEPARTMENT:HISTORY**



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A Premier Institution, Kurukshetra University, Kurukshetra

[akmshahabad@yahoo.com](mailto:akmshahabad@yahoo.com)

## Course Out Comes:- Department of History (2024-25) EVEN SEMESTER

Paper Code	Paper Name	Outcomes	
<b>B.A.-I Sem.-II</b>			
B-23 HIS-201 (Major)	History of India (From Earliest Time to 1206)	CO 1	Learn about the sources of Ancient History and Harappan Civilization
		CO 2	Understand the Major Development of the Ancient Empires like Mauryan, Gupta and Post Gupta Powers in India
		CO 3	Triangular Struggle, Administration of Cholas, Invasions of Ghaznavi and Ghori in India
		CO 4	Also understand the outline Maps of Ancient India Empires
B-23 HIS-204 (MDC)	Glimpses of Medieval India	CO 1	To understand the polity of Delhi Sultanate
		CO 2	To understand the Bhakti & Sufi Movement
		CO 3	To understand and learn about the Mansabdari, Zabti, Jagirdari, Ijaradari System.
<b>B.A.-II Sem.-IV</b>			
B-23 HIS-401	History of India (1757 to 1947)	CO 1	This paper is covered for Civil Services and allied services examination.
		CO 2	To acquaints the students various aspects related to Formation of Congress
		CO 3	Learn about the administration with Act of 1909, 1919, 1935 during the British Rule.
		CO 4	To learn about the various National Movements throughout 1947
<b>B.A.-III Sem.-VI</b>			
HR-26 Opt (ii)	Modern Europe	CO 1	To understand change of Europe after French Revolution
		CO 2	To Learn about the Vienna Congress and Napoleon Phase
		CO 3	To understand the unification of Italy and Germany
		CO 4	To understand how to occur World War-I & II and his consequences



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Kurukshetra

[akmshahabad@yahoo.com](mailto:akmshahabad@yahoo.com)



**ARYA KANYA MAHAVIDYALYA  
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**SESSION:2024-25**

**SUBJECT OUTCOMES**

**DEPARTMENT:HOME SCIENCE**

## Home Science (2024-25) Even Semester

<b>B.A. Sem-VI</b>			
<b>HS 26</b>	<b>Human Development</b>	CO-1	Understanding Child Psychology.
		CO-2	Developing learning skills, personality traits, role of play in childhood.
		CO-3	Common ailments of children.
		CO-4	Care of pregnant women.
		CO-5	Cooking using different methods, preservation of vegetable and fruits in the form of jams, pickles etc.
		CO-6	Fancy cooking.





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[akmshahabad@yahoo.com](mailto:akmshahabad@yahoo.com)



**ARYA KANYA MAHAVIDYALYA**

**SHAHABAD MARKANDA**

**SESSION:2024-25**

**SUBJECT OUTCOMES**

**DEPARTMENT:MATHEMATICS**

## Mathematics Subject Outcomes

Even Semester

Session-2024-25

<b>Paper Code</b>	<b>Paper Name , Teacher Name</b>		<b>Outcomes</b>
<b>B.Sc./B.A. Sem-II</b>			<b>Student will be able to:</b>
B23- MAT- 201	Algebra and Number Theory (Dr. Hema Sukhija)	CO1	Gain knowledge of the concepts of symmetric, skew-symmetric, Hermitian, skew-Hermitian, Orthogonal and Unitary matrices, Linear dependence and independence of rows and columns of a matrix. Have knowledge of procedure and cognitive skills used in calculating rank of a matrix, eigen values, characteristic equation, minimal polynomial of a matrix and technical skills used in solving problems based on Cayley- Hamilton theorem
		CO2	Have knowledge of the concepts used in solving problems based on relations between the roots and coefficients of general polynomial equation in one variable, solutions of polynomial equations having conditions on roots, common roots and multiple roots. Understand Descarte's rule of signs and learn cognitive and technical skills required in assessing nature of the roots of an equation and solving problems based on these
		CO3	Have deeper and procedural knowledge required for solving cubic and biquadratic equations used in Mathematics as well as many other learning fields of study. To understand the basic concepts of number theory and their applications in problem solving and life- long learning
		CO4	Have knowledge of concepts, facts, principles and theories of Linear Congruences, Fermat's theorem, Euler's theorem, Wilson's theorem and its converse, Chinese Remainder theorem. Attain cognitive skills used in solving linear Diophantine equations in two variables
<b>B.Sc./B.A. Sem-IV</b>			
B23- MAT- 401	Analytical Geometry and Vector Calculus (Dr. Hema Sukhija)	CO1	<b>Students will able to</b> Gain knowledge of the concept of different conic sections, their classification and properties. Understand various terms related to conic sections and gain skills to use them in problem solving.
		CO2	Have knowledge of general form of equation of a sphere and attain procedural knowledge required for solving problems related to intersection of spheres, tangent plane and line, orthogonality, length of tangent and co-axial system of spheres. Learn about equations of cones and apply knowledge for problem solving

		CO3	Have deeper knowledge and understanding of cylinder, enveloping cylinder, concepts of conicoids, tangent plane, director sphere, normal, envelope and to make further use thereof.
		CO4	Understand and solve problems related to scalar and vector product of vectors, vector differentiation, directional derivatives, gradient, divergence and curl operators. Have deeper understanding of line, surface and volume integrals, their evaluation, proof of Gauss Divergence, Green's and Stoke's theorems and gain theoretical and technical knowledge in computing different surface flux integrals, volume integrals and line integrals used in other disciplines also.
<b>BSc./B.A. Sem-VI.</b>			
BM-361	Real and Complex Analysis (Dr. Hema Sukhija)	CO1	Real and Complex Analysis an introduction to the theory of holomorphic functions. Multivalued functions and branches have been dealt carefully with the application of the machinery of complex measures and power series.
		CO2	Intended for undergraduate students of mathematics and engineering, it covers the essential analysis that is needed for the study of functional analysis, developing the concepts rigorously with sufficient detail and with minimum prior knowledge of the fundamentals of advanced calculus required.
		CO3	Understand concept of Jacobian, functional dependence and independence
		CO4	Understand and Learn Beta and Gamma Function, Double and Triple integral
		CO5	Understand Fourier Series and apply knowledge for problem solving
		CO6	Understand stereographic projection of complex plane on the Riemann sphere. Understand the significance of differentiability and analyticity of complex functions leading to the Cauchy–Riemann equations. Apply knowledge to solve related problems
		CO7	Learn about mapping by elementary functions
BM-362	Linear Algebra (Ms. Ishika)	CO1	Analyze Vector spaces and subspaces over a field and their properties.
		CO2	Understand Span of a set and its Properties.
		CO3	Analyze Linear dependence and independence of sets and their properties together with examples.
		CO4	Find Dimension and basis of a vector space and Prove their properties
		CO5	Analyze Linear Transformations and their properties.

		CO6	Determine Matrix associated with a linear map and Linear map associated with a Matrix
BM-363	Dynamics  (Ms. Ishika)	CO1	Students will able to Define Projectile, impulse, impact and 1 laws of impact.
		CO2	It allows one to predict the motion of an object or objects, under the influence of different forces, such as gravity or a spring.
		CO3	It can be used to predict the motion of planets in the solar system or the time it takes for a car to brake to a full stop.
		CO4	Students will able to prove that the path of a projectile is a parabola.
		CO5	Students will able to find the direct and oblique impact of smooth elastic spheres.
		CO6	It is widely used for forecasting and predicting in the field of machine learning.

### B.Com.-Mathematics Sem-II

B23-COM-204	Business Mathematics-II (Dr. Hema Sukhija)	CO1	Students will able to Gain the knowledge to find derivatives simple functions related to commerce problems, attain skills to use application of derivatives in evaluating maxima and minima
		CO2	Learn to find integration of simple functions related to commerce and economic problems, attain skills to use application of integration in business and commerce problems
		CO3	Apply binomial theorem, learn the concept and applications of permutations and combinations
		CO4	Learn the concept of Linear programming and formulation of linear programming problems related to business and commerce

### BCA Sem-II

B23-CAP-204	Mathematical Foundations for Computer science-II (Ms. Ishika)	CO1	Students will be able to: Understand the concept of integration
		CO2	Acquire cognitive and technical knowledge about a variety of methods of representation of statistical data
		CO3	Understand methods of measure of central tendency. Analyze the problem and apply the best measure of central tendency to draw inferences from the available data
		CO4	Understand the concept of correlation, and correlation methods and conclude about the type of correlation for the available data. Comprehend the skills of curve fitting

### B.A.-I Sem II (MDC)

B23-COM-205	Fundamentals of Banking	CO1	Students will be able to: Know the basics of banking
		CO2	Understand the banking instruments

	and Insurance (Ms. Ishika and Ms Nikita)	CO3	Understand the basics of insurance
		CO4	Learn about various types of insurance

**B.A. –II Sem IV (VAC)**

B23-VAC-418	MATHEMATICS IN EVERYDAY LIFE (Ms Nikita)	CO1	Students will be able to Gain knowledge of facts, concepts and rules to calculate simple and compound interests. Understand the technical terms related to income tax and Equated monthly installment (EMI) and then to apply their enhanced technical and analytical skills to calculate income tax for different level of income tax payee and aware about how much they have to pay each month on a loan. They will be able to compare the results and discuss the impact of compounding on long term savings.
		CO2	Have deeper knowledge of profit, loss, work, time and distance, coding and decoding inculcate technical and cognitive skill in solving problems related to these. Attain procedural skill to solve real life problems related to ratios and proportions. Gain procedural and technical knowledge to solve the practical problems of height and distances using concepts of trigonometry.
		CO3	Attain technical and cognitive skills to analyze and solve numerical based on the concept of sequence and series, Arithmetic Progression, Geometric Progression, permutation and combination.
		CO4	Develop cognitive skill to analyze the results of a sample using measures of central tendency and graphical representation (pie charts, frequency polygons, ogive). To design and conduct a survey on a relevant topic of their choice (e.g., favorite leisure activities, dietary habits, etc.). Have procedural knowledge to solve linear programming problems used in everyday life.

**B.Com.-I (Sem II) (SEC)**

B23-SEC-225	Numerical Ability Enhancement Skills (Ms Nikita)	CO1	Students will be able to Understand real number system, fundamental arithmetical operations, use of BODMAS rule and solve typical expressions accurately and fast.
		CO2	Acquire skill to identify types of given sequences/series and apply suitable method to find a particular term, sum of specific number of terms and practice this learning in real life mathematical problems.
		CO3	To formulate equations for specific mathematical problem and making use of mathematical skills to solve that.
		CO4	Have a deeper and comprehensive understanding of the basic concepts of Percentage, Profit & Loss, Alligation or mixture, Averages and acquire skill to use this knowledge in real life

			problems
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Kurukshetra

[akmshahabad@yahoo.com](mailto:akmshahabad@yahoo.com)



**ARYA KANYA MAHAVIDYALYA  
SHAHABAD MARKANDA**

**SESSION:2024-25**

**SUBJECT OUTCOMES  
DEPARTMENT:MUSIC**

**Department of Music**  
**Session:2024-25(Even Semester)**  
**Subject Outcomes**

<b>B.A.2ndSem.</b>		
<b>Paper Code</b>	<b>Paper Name</b>	<b>OUTCOMES</b>
<b>B23-BMV-201</b>	Historical study of the Musical Terms	They learnt the Sound quality, Tonal quality of music
<b>CC</b>		Knowledge about the Gun Dosh of Gayak
		Came to know about the Vedic period of music
		They Learnt about the Musical Instruments.
<b>B.A.SEM.4th</b>		
<b>B23-BMV-401</b>	Applied Music Theory	Students came to know Types of Instruments
		They had learnt the talas on tabla
		Contribution of Indian music Scholars
		They learnt about Geet, Bhajan, Folk song etc.
<b>B.A.SEM.6th</b>		
<b>MV26</b>	Music Theory	They knew the Classification of music during Vedic period to Modern period
		Knew about Voice Culture
		They learnt all raagas and how to perform on stage.
		They knew about the culture of Haryana & Punjab.



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[akmshahabad@yahoo.com](mailto:akmshahabad@yahoo.com)



**ARYA KANYA MAHAVIDYALYA**

**SHAHABAD MARKANDA**

**SESSION:2024-25**

**SUBJECT OUTCOMES**

**DEPARTMENT:PHYSICS**

**PHYSICS DEPARTMENT, SESSION 2024-25**  
**COURSE OUTCOMES (EVEN SEMESTER)**

<b>Paper code</b>	<b>Paper Name</b>	<b>Outcomes</b>	
	<b>Teacher Name</b>	<b>Students will be able to</b>	
<b>B.Sc 1<sup>st</sup> Sem-II B23-PHY - 201</b>	<b>Mrs. Sanjul Gupta (Electricity, Magnetism and EM Theory) (CC-2/MCC-3)</b>	CO1	Explain and differentiate the vector and scalar formalisms of electrostatics. Also be able to apply Gauss's Divergence & Strokes theorem to solve various problems in electrostatics.
		CO2	Describe the magnetic materials & important properties of magnetic field. Understand the properties and theories of dia-, para- & ferromagnetic materials.
		CO3	Derive Maxwell equations and their physical significance and familiar about the propagation of electromagnetic waves i.e boundary conditions at the interface between different media. The students will also be able to have basic idea about propagation of electromagnetic waves in free space and in medium.
		CO4	Understand D.C and A.C circuits, able to apply and analyze using networks. Analyze DC/AC circuits consisting of parallel and series combinations of voltage sources and resistors and to describe the graphical relationship of resistance, capacitor and inductor.
<b>B.Com 1<sup>st</sup> Sem-II B23-PHY - 204</b>	<b>Mrs. Sanjul Gupta (Physics Fundamentals-II) (MDC-2)</b>	CO1	Have basic knowledge about Wave motion, SHM, the associated phenomena and their applications in daily life
		CO2	Have basic knowledge about nature of light, the associated phenomena and their importance in daily life
		CO3	Have basic knowledge about electric current, electric circuit, electric components, and practical utility of heating and magnetic effects of electric current
		CO4	Grasp an introductory idea about the Electric components and circuits

<b>Paper code</b>	<b>Paper Name</b>	<b>Outcomes</b>	
	<b>Teacher Name</b>	<b>Students will be able to</b>	
<b>B23-PHY-401</b>	<b>Dr. Poonam Siwatch (Waves and Optics)</b>	CO1	Have understanding of Interference- by Division of Wavefront, by division of amplitude and interference due to transmitted and reflected light.
		CO2	Learn about Huygen's-Fresnel's theory, diffraction at straight edge and a circular aperture, diffraction due to a narrow slit and a narrow wire. Understand and explain Fraunhofer diffraction, dispersive power of grating, Rayleigh's criterion and resolving power of a telescope and grating.
		CO3	Understand the theories of polarization along with the production

			and detection of (1) plane polarized light (2) circularly polarized light) and (3) elliptically polarized light
		CO4	Understand and appreciate the applications of Lasers in developing LED, Holography, in material processing, in medicine, in industry and military. Have the idea of optical fibre, their properties and principle of propagation of electromagnetic waves through optical fibres. Also understand various optical phenomena, principles, workings and applications of optical instruments through experiments.

Paper code	Paper Name	Outcomes	
B.Sc 3 <sup>rd</sup>	Teacher Name	Students will be able to	
PH- 601	Dr. Poonam Siwatch (Solid State and Nano Physics)	CO1	Know about crystalline and amorphous substances, lattice, unit cell, primitive cell, miller indices, Bravais lattices in two & three dimensions and crystal structures of Zinc Sulphide, Sodium Chloride and Diamond.
		CO2	Understand and learn X-ray diffraction, Bragg's Law and experimental X-ray diffraction methods and about the reciprocal lattice to a simple cubic lattice, b.c.c. and f.c.c. lattice.
		CO3	Understand the basic idea about superconductors, their classifications and practical applications.
		CO4	Know the basics of nanotechnology and appreciate the role of nanotechnology in different fields such as automobile, electronics, nano-biotechnology, materials, medicine etc.
PH -602	Dr. Poonam Siwatch (Atomic & molecular spectroscopy)	CO1	Spectroscopic studies were central to the development of Quantum mechanics and study of atoms and molecules.
		CO2	Learn about vector atom model, salient feature of vector atom model, spin orbital interaction energy.
		CO3	Understand the fine structure of alkali spectra & coupling in case a more than one valence electron atom.
		CO4	Learn about Larmor's theorem, Pauli Exclusion Principal ,symmetric & anti- symmetric , wave function.
		CO5	Learn about ,infra red rotational & vibrational spectra and their energy level ,Raman effect & its application & checking of assignment

Paper code	Teacher Name & Paper Name	Outcomes	
		After completion of this course, the learner will be able to:	
B23-VAC-201	Dr. Poonam Siwatch (B.Sc. 1 (med, non-med, comp. science) (BCA I & B.Sc. I Fashion Designing) Mrs. Sanjul Gupta (B.Com I) Environmental Studies	CO1	Understand the concept of environmental studies, sustainable development and ecosystem
		CO2	Learn about various natural resources, biodiversity and its conservation
		CO3	Know about the types of pollution, solid waste management, global environmental issues and environmental laws
		CO4	Understand the concept of population growth and its impact on environment and disaster management



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**ARYA KANYA MAHAVIDYALYA  
SHAHABAD MARKANDA**

**SESSION:2024-25**

**SUBJECT OUTCOMES**

**DEPARTMENT:POLITICAL SCIENCE**

Political Science

Sem-1<sup>st</sup>

Session 2024-25

Paper Name -Principals of Political science-

Teacher Name – Pooja

**Course Outcomes**

- CO:1 The students came to know about the basics of Political Science .
- CO:2 To understand the main sources of political Theory .
- CO:3 They had learnt about the digital platforms and learnt their duties to become a better citizen.
- CO:4 They knew about the current affairs and mythology in group discussion and E Newspaper.
- CO:5 The qualities of leadership and confidence developed in them.
- CO:6 They had learnt about their supreme law in class discussion.

  
Principal (offg.)  
Arya Kanya Mahavidyalya  
Shahabad Markanda

**Political Science**

**Sem-2<sup>nd</sup>**

**Session 2024-25**

**Paper Name: Principals of political science-II**

**Teacher Name - Pooja**

**Course Outcomes**

- CO:1 Students come to know about the basics of Theory of pol science .
- CO:2 They had learnt about the digital platforms and discussed Rule of law .
- CO:3 They knew about the current affairs and mythology in group discussion.
- CO:4 The qualities of leadership and confidence developed in them.
- CO:5 They had cleared their therotical knowledge with real example.

  
Principal (offg.)  
Arya Kanya Mahavidyalya  
Shahabad Markanda

**Political Science**

**Sem-3<sup>rd</sup>**

**Session 2024-25**

**Paper Name – Indian Constitutions**

**Teacher Name - Pooja**

**Course Outcomes**

- CO:1 The students came to know about the basics of Indian Constitution.
- CO:2 To understand the main sources of Constitution and it's Preamble.
- CO:3 They had learnt about the digital platforms and learnt their duties to become a better citizen.
- CO:4 They knew about the current affairs and mythology in group discussion and E Newspaper.
- CO:5 The qualities of leadership and confidence developed in them.
- CO:6 They had learnt about their supreme law in class discussion.

*Aash*  
Principal (offg.)  
Arya Kanya Mahavidyalya  
Shahabad Markanda

**Political Science**

**Sem- 4<sup>th</sup>**

**Session 2024-25**

**Paper Name – Indian Government and Politics**

**Teacher Name - Pooja**

**Course Outcomes**

CO:1 Students come to know about the basics of Indian Politics.

CO:2 They had learnt about the digital platforms and discussed India's critical issues like caste, religion and language.

CO:3 They knew about the current affairs and mythology in group discussion.

CO:4 The qualities of leadership and confidence developed in them.

CO:5 They had cleared their theoretical knowledge with real example.

  
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**Political Science**

**Sem-5<sup>th</sup>**

**Session 2024-25**

**Paper Name – International Relations**

**Teacher Name - Pooja**

**Course Outcomes**

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 affairs and mythology in group discussion and to understand IR approaches.

CO:4 The qualities of leadership and confidence developed in them.

CO:5 They had discussed the relation among the nations in class and discussed India's relations with neighborhood.

  
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Shahabad Markanda

**Political Science**

**Sem-6<sup>th</sup>**

**Session 2024-25**

**Paper Name – International Organization**

**Teacher Name - Pooja**

**Course Outcomes**

CO:1 Students came to know about the basics of International Organization.

CO:2 They had learnt about the digital platforms.

CO:3 They knew about the current affairs and mythology in group discussion.

CO:4 Students had discussed current issues in class.

CO:5 They had used E-newspaper for International news and updates.

CO:6 They had discussed current news and updates of International Organization and it's agencies

*Sauri*  
Principal (offg.)  
Arya Kanya Mahavidyalya  
Shahabad Markanda



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A Premier Institution, Affiliated to Kurukshetra University,

Kurukshetra

[akmshahabad@yahoo.com](mailto:akmshahabad@yahoo.com)



**ARYA KANYA MAHAVIDYALYA**

**SHAHABAD MARKANDA**

**SESSION:2024-25**

**SUBJECT OUTCOMES**

**DEPARTMENT:PUNJABI**



**ARYA KANYA MAHAVIDYALYA, SHAHABAD MARKANDA**  
A Premier Institution, Kurukshetra University, Kurukshetra  
[akmshahabad@yahoo.com](mailto:akmshahabad@yahoo.com)

## Course Outcomes (Deptt. of Punjabi)

### Session 2024-25 (Even Semester)

B.A.(CC-1), Sem. II

Paper Code	Paper Name		Outcomes
B23- PNB-201	Aadhunik Punjabi Galap Ate Viharak Punjabi	CO-1	The syllabus of this semester gives the knowledge about the history of Punjabi Fiction and different forms of Punjabi Fiction.
		CO-2	The students acquire knowledge about the differences between the ideologies of different Punjabi story writers.
		CO-3	The students understand the technique of Punjabi Novel & Short Story.
		CO-4	The student able to understand the differences between Punjabi Novel & Short Story
		CO-5	'Error Correction' part of the syllabus gives the ability to understand and improve the writing mistakes of the students.

### AEC Punjabi, Sem. 2

B23- PNB- AEC-241	Punjabi Bhasha Ate Sanchar-II	CO-1	Students will be able to read and write Punjabi as well as understand the grammatical units of Punjabi Language.
		CO-2	Students will understand the sentence structure and practical use of Punjabi Language.
		CO-3	The student will be able to communicate in Punjabi more perfectly.


### B.A. Sem. IV

B23- PNB-401	Punjabi Natak, Ikangi Ate Viharak Punjabi	CO-1	The syllabus of this semester gives the knowledge about the history of Punjabi Fiction and different forms of Punjabi Fiction.
		CO-2	The students understand the technique of Punjabi One-Act-Play and able to understand the differences between drama and One-Act-Play.
		CO-3	The students acquire knowledge about the differences between the ideologies of different writers.
		CO-4	Grammar part of the syllabus enhances knowledge in the perfect use of Punjabi Grammar in practical life.

### B.A. Sem. VI

EP-26	Elective Punjabi	CO-1	The students acquire the knowledge of Ancient Period of History of Punjabi Literature.
		CO-2	The students acquire the knowledge of different types of Prose.
		CO-3	The students become able to understand differences between Novel and Short Story, Drama and One-Act-Play, Auto-Biography and Biography.
		CO-4	The students become able to improve his/her writing spelling mistakes.

  
Dr. Simarjeet Kaur  
HOD, Department of Punjabi

  
Dr. (Mrs.) Aarti Trehan  
Principal (Offg.)  
Arya Kanya Mahavidyalaya  
Shahabad Markanda



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A Premier Institution, Affiliated to Kurukshetra University,

Kurukshetra

[akmshahabad@yahoo.com](mailto:akmshahabad@yahoo.com)



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SHAHABAD MARKANDA**

**SESSION:2024-25**

**SUBJECT OUTCOMES  
DEPARTMENT:SANSKRIT**

संस्कृत-विषयस्य परिणामः

सत्र 2023-24

संस्कृतम्

विषय -कोडः	विषय-नाम	परिणामः
<b>कलास्नातक-प्रथमसामिसत्रम्</b>		
CLO-101-1	हितोपदेश	संस्कृत भाषा में ज्ञान की सरल मनोवैज्ञानिक विधियों के द्वारा छात्रों को बोध कराने के लिए अनेक ग्रंथ कहानी के रूप में लिखे गए जैसे पंचतंत्र, हितोपदेश आदि। इस घटक में हितोपदेश के मित्रलाभ प्रकरण से छात्रों को संस्कृत भाषा में प्रवेश करवाया जाता है।
CLO-101-2	नीतिशतक	नीतिशतक भारतीय नीतिशास्त्र तथा सुभाषित के रूप में जाना जाता है। भर्तृहरि द्वारा रचित नीति-शतक के प्रथम 50 श्लोकों के माध्यम से छात्रों को न्याय एवं नीति से समाज बोध की शिक्षा देने का प्रयास किया गया है।
CLO-101-3	संस्कृत-व्याकरण	संस्कृत भाषा में प्रवेश के लिए छात्रों को व्याकरण के प्रथम सोपान धातुरूप तथा शब्दरूपों का ज्ञान होना आवश्यक है। इस घटक में छात्रों को सरल धातु-रूपों से परिचय करवाया जाता है ताकि वे संस्कृत भाषा समझने में तत्पर हो सकें।
CLO-101-4	सन्धि कण्ठस्थ-श्लोकाः	भाषा में संधियों का प्रयोग परम आवश्यक है। इस घटक में छात्रों को संस्कृत भाषा की संधियों का बोध करवाया जाता है ताकि वे भाषा को आसानी से समझ सकें क्योंकि संधि में पदों को अलग-अलग करके अर्थ को आसानी से जाना जा सकता है।
<b>कलास्नातक-द्वितीयसामिसत्रम्</b>		
CLO-201-1	श्रीमद्-भगवद्गीता, द्वितीय अध्याय-	गीता भारतीय संस्कृति तथा ज्ञान का उत्कर्ष है। गीता को कर्म तथा ज्ञान के सम्यक् बोध के रूप में जाना जाता है। गीता के द्वितीय अध्याय को सांख्य-योग के नाम से जाना जाता है। इस अध्याय में जीवन के मर्म को जानकर कर्म करने की प्रेरणा दी गई है। वह सभी मनुष्यों को जानना चाहिए।
CLO-201-2	चरकसंहिता स्वस्थवृत्तम् सूत्रस्थान	द्वितीय घटक में नीतिशतक के 51-100 श्लोकों को शामिल किया गया है। न्याय एवं नीति बोध जीवन को सरल बना देता है। भर्तृहरि ने मनुष्यों को शिक्षा देने का प्रयास किया है कि हमारा सामाजिक व्यवहार कैसे हो। यह सभी छात्रों को जानना चाहिए।

विषय –कोड:	विषय–नाम	परिणाम:
CLO-201-3	संस्कृत–व्याकरण	संस्कृत धातु रूपों के ज्ञान के अभाव में भाषा को नहीं समझा जा सकता। धातु प्रत्ययों का बोध इस घटक में दिया गया है। संस्कृत में धातुओं की संख्या दो हजार के आसपास है। अतः इनका बोध भाषा को सरल रूप में समझने में सहायक है।
CLO-201-4	छन्दः हिन्दी से संस्कृत में अनुवाद	संस्कृत भाषा में साहित्य को लिखने की विधियाँ हैं, पद्य, गद्य तथा दोनों का मिला हुआ स्वरूप। पद्यों में रचना के लिए छन्दों का ज्ञान आवश्यक है। कविता छंद के बिना नहीं हो सकती। अतः छात्रों को आरम्भ छंदों का ज्ञान इस घटक में दिया जाता है। छात्रों की रुचि कविता में हो ऐसा छंदों के ज्ञान से संभव है।
<b>कलास्नातक–तृतीयसामिसत्रम्</b>		
CLO-301-1	महाभारतः यक्षयुधिष्ठिर संवाद	महाभारत विश्व प्रसिद्ध महाकाव्य है। इसे पंचम वेद की संज्ञा दी गई है। महाभारत के वनपर्व में यक्षयुधिष्ठिर संवाद के माध्यम से धर्म–अधर्म, नीति–अनीति इत्यादि का प्रश्नोत्तर के माध्यम से छात्रों को न्याय, नीति सम्बन्धी शिक्षा दी जाती है।
CLO-301-2	रामायणः अयोध्या काण्ड, शततमः सर्गः	रामायण लौकिक साहित्य का महत्वपूर्ण ग्रन्थ है। रामायण भारतीय परम्पराका जीवन्त ग्रन्थ है। इस घटक में राम के गुण, कार्य और उसके राष्ट्रप्रेम से छात्रों को अवगत करवाया जाता है। व्याकरण के बिना भाषा अधूरी है। संस्कृत व्याकरण का आदि ग्रंथ अष्टाध्यायी है जो वैज्ञानिक आधार रखता है।
CLO-301-3	संस्कृत–व्याकरण समास	प्रस्तुत घटक में समासों के माध्यम से छात्रों को भाषा का संक्षेपीकरण एवं सरल बोध करवाया जाता है।
CLO-301-4	वरदराज, लघुसिद्धान्तकौमुदी प्रत्याहारसूत्र (माहेश्वरसूत्र) संख्यावाची संस्कृत–शब्द	व्याकरण के आरम्भ में महेश्वर सूत्र है जो संस्कृत भाषा की वैज्ञानिक वर्णमाला कहलाती है। इसमें सभी वर्णों का समावेश भाषा वैज्ञानिक आधार पर किया गया है। इससे छात्रों को वर्णमाला एवं उच्चारण बोध में महत्वपूर्ण सहायता मिलती है। पत्र लेखन के माध्यम से छात्र संस्कृत भाषा में पत्र व्यवहार सीखते हैं।
<b>कलास्नातक–चतुर्थसामिसत्रम्</b>		
CLO-401-1	कालिदास, रघुवंश–द्वितीय सर्ग	संस्कृत साहित्य में महाकाव्य काव्य का महत्वपूर्ण भाग है। महाकाव्य में इतिहास प्रसिद्ध व्यक्ति के चरित्र पर प्रकाश डाला जाता है। कालिदास रचित रघुवंश महाकाव्य इतिहास प्रसिद्ध है। इसमें अनेक राजाओं के जीवन चरित पर प्रकाश डाला गया है एवं वर्तमान समय की भौगोलिक, राजनीति, सामाजिक, आर्थिक बिन्दुओं पर प्रकाश डाला जाता है जिससे छात्रों में समझ उत्पन्न होती है।

विषय –कोड:	विषय–नाम	परिणाम:
CLO-401-2	अम्बिकादत्त व्यास, शिवराजविजय–द्वितीय निःश्वास	आधुनिक भारत के इतिहास के साथ–साथ प्राचीन भारत का इतिहास भी अम्बिकादत्त व्यास के उपन्यास में देखने को मिलता है। वर्तमान भारत की दुर्दशा तथा प्राचीन भारत को समृद्ध परम्परा के माध्यम से छात्रों को देशभक्ति एवं प्राचीन भूतों से सीख लेने को शिक्षा इसमें मिलती है।
CLO-401-3	संस्कृत–व्याकरण	व्याकरण भाषा को जानने एवं समझने की एक वैज्ञानिक व्यवस्था है। व्याकरण के बोध से भाषा को समझने एवं उसके प्रयोग को विधि समझने में छात्रों को सहायता मिलती है।
CLO-401-4	वरदराज, लघुसिद्धान्तकौमुदी संज्ञाप्रकरण अनुवाद	इस घटक में संज्ञाप्रकरण के माध्यम से व्याकरण में प्रयुक्त होने वाली संज्ञाओं का ज्ञान विद्यार्थियों को करवाया जाता है।
<b>कलास्नातक–पंचमसामिसत्रम्</b>		
<b>कलास्नातक–षष्ठसामिसत्रम्</b>		



**ARYA KANYA MAHAVIDYALYA, SHAHABAD MARKANDA**

A Premier Institution, Affiliated to Kurukshetra University,

Kurukshetra

[akmshahabad@yahoo.com](mailto:akmshahabad@yahoo.com)



**ARYA KANYA MAHAVIDYALYA**

**SHAHABAD MARKANDA**

**SESSION:2024-25**

**SUBJECT OUTCOMES**

**DEPARTMENT:ZOOLOGY**

**Mrs. Jyoti**

**BSc 3<sup>rd</sup> year learning outcomes**

Sr no.	<b>Paper I-Aquaculture and Pest Management</b>
	<b>Student will be able to</b>
	1.Learn the production and utilization of world fisheries
	2. Explain about freshwater fisheries of India
	3. Study the fishing craft and gears
	4.understand the concept of fishing craft and gears
	5.Able to explain culture of fin fishes , crustaceans and molluscs
	6.Able to explain systematic position ,habits and nature of damage cause and life cycle of pest of – (i)Sugarcane (ii)Cotton (iii)Wheat (iv)Paddy (v)Vegetables
	<b>PaperII- Aquaculture and Pest Management</b>
	1.Study the concept seed production
	2.Learn and clear the concept of nutrition and feed composition.
	3.Study the concepts of field culture
	4.Able to explain culture technology
	5.able to explain the systematic position , habits and nature of damage caused and life cycles of pest of stored grains- (i)pulse beetle (ii)Rice weevil (iii)Wheat weevil

	(iv)Rust red flour beetles (v)Lesser grain borer (vi)Grains and flour moth
	6.Learn the biological control of pests .
	7.Study the chemical control of pests
	8.Able to explain concept of integrated pest management.
	10.Clear the concept of birds and rodents pests of agriculture
	11.Learn the management of birds and rodents pests of the agriculture