

## **PROGRAM OUTCOME OF BACHELOR OF ARTS**

Indira Gandhi National College is affiliated to Kurukshetra University Kurukshetra (Haryana), and follows the syllabus In B.A. programme prescribed by the university as per UGC norms. Students are allowed to choose two optional subjects from the variety of courses viz. History, Economics, Political Science, Sanskrit, Home Science, Physical Education and Computer Science along with two compulsory subjects i. e English and Hindi. These courses enrich students with political, historic, economic, health and literary consciousness ultimately preparing them to cope up with the challenging situations of life. The compulsory subjects viz. Hindi and English enhance the students' skills of reading, writing, speaking, thereby developing their proficiency in both languages.

**Program Outcomes are as follows:**

### **PO1. Decision Making**

Our students get exposure from a variety of subjects, thereby developing their capability of decision making.

### **PO2. Creativity**

Students learn to develop the ability to find the solutions to a problem with their imagination and critical thinking while taking part in co-curricular activities.

### **PO3. Developing Analytical and Competitive Skills**

Quizzes, competitions, cultural and sports activities organised for the students help in developing their analytical and competitive skills. This programme equips them to clear competitive exams as well as enables them to work efficiently.

### **PO4. Moral Values Inculcation**

Our co-educational institute develops the sense of belongingness amongst both sexes. Various activities carried out under Legal Literacy, Anti-Sexual Harassment, women Cell, NCC and NSS, sensitize students towards gender equity and make them socially responsible.

### **PO5. Employability**

After graduation, the student will become eligible & well-equipped for employment in the government and private sector.

### **PO6. Entrepreneurial Skills**

Subjects like Economics, Physical Education, HomeScience and Languages help develop entrepreneurial skills in students.

### **PO7. Scope of Higher Studies**

The program builds a strong academic foundation amongst students, thereby preparing them to excel in higher education.

### **PO8. Environment and Sustainability**

The objective of the Environment course & various activities carried out under NSS and tree-plantation drive in the campus is to help students understand the importance of environment & sustainable development.

**PO9. Responsible Citizen**

Humanity courses in the program have been designed so as to develop awareness amongst students about issues of national importance, thereby enabling them to act responsibly & empathically so that they can efficiently contribute to civic life.

**COs, Pos and PSOs submitted by the HOD, Department of English I.G. National College Ladwa, Dhanora:**

**COs of B.A. English:**

CO 1. Described the concept of essay as a genre of prose fiction and analyzed its specific features and objectives

CO 2. Discussed the concept of Parts of Speech and analyzed their relative importance in investing the sentence with a legible meaning as a syntactic unit

CO 3. Described the concept of Tenses and discussed their uses in the formation of different types of sentences

CO 4. Described the concept of Story as a genre of Prose Fiction and discussed its major components, their relevance and objectives

CO 5. Described the concept of Sentence and its kinds

CO 6. Described Modal Auxiliaries and their uses

CO 7. Described the concept of Subject-Verb (Concord) and discussed their grammatical rules and linguistic conventions

CO 8. Described the concept of voice and discussed its uses, relevance and objectives in different contexts

CO 9. Described the concept of Phrasal Verbs and discussed their relevance in effective written and verbal (oral) communication

CO 10. Described the concept of Direct and Indirect Speech and discussed its relevance, function and objectives

CO 11. Described the concept of Punctuation and discussed its essential role in providing language with the trait of accuracy and precision

CO 12. Described the Concept of Poetry as a genre of literature, its kinds, salient features and relevance

CO 13. Described the concept of Non- Finite Verbs, their kinds, uses, relevance and objectives

CO 14. Described the concept of Clauses, their kinds, relevance and objectives

CO 15. Described the concept of One Act Play and discussed its salient features and their relevance and objectives

CO 16. Described the concept of translation, its prominent role in a world of diversity of languages; learned the importance of prevalent linguistic norms and conventions of various languages and their role in the act of good translation

CO 17. Described the concept of Dialogue Writing, Resume Writing, and Writing E-mails; their relevance and objectives

CO 18. Described concept of Novel, its components, salient features and tools of analysis

CO 19. Described the concept of full length play, its components, salient features and tools of analysis

CO 20. Described the concept of Precis Writing and Letter Writing; their relevance and objectives

**POs of B.A. English:**

PO 1. Reflective Thinking: Analyzing a situation of life from multiple viewpoints through a piece of literature and thereby, enhancing and transforming one's individual perspective to a reflective generalized notion

PO 2. Communicative Skills: Enhancing the ability of learners to speak, write and read in an intelligible and legible fashion by acquainting them with the bottom-line concepts of language and its linguistic components

PO 3. Responsible Citizenship: Acknowledging and recognizing the cultural traits and ethical values of different social groups by reading their varied literature and attaining a sense of a unified Identity and a collective consciousness of being a responsible citizen

PO 4. Attain the ability to sustain one's individual viewpoint in spite of the diversity of opinions in a constructive group discourse and present it emphatically and legibly

PO 5. Attain the ability to control one's emotions, direct one's reason and to exercise a habit of reflection, thereby achieving the target of real education by becoming an embodiment of physical, mental and spiritual growth

**PSOs of B.A. English:**

**Programme Specific Outcome of English**

PSO 1. To understand the basic concept of Literature and its relevance in providing an individual the opportunity to perceive life from multiple perspectives

PSO 2. To comprehend the meaning of a literary work with reference to its relation to the writer; to the reader; or to the external world or universe

PSO 3. To understand different genres of literature and their relative significance in catering for the intellectual appetite of the readers

PSO 4. To acquaint the learners with the difference between literary language and language of real life

PSO 5. To acquaint the learners with various figures of speech, thereby making them familiar with the suggestive use of language

PSO 6. To understand the concept of language and its constituent elements like Phoneme, Morpheme and Syntax

PSO 7. To understand the use of language at phonemic, morphemic and syntactic level

PSO 8. To analyze language as a combined product of prescriptive rules of grammar and some implicit linguistic conventions which function in the background and cannot be confined to any fix rules, but are still capable of governing and moulding the meaning of language from outside

PSO 9. To acquaint the learners with the phonemic system of English language and train them how to articulate different Consonant and Vowel sounds through our vocal apparatus

PSO 10. To understand the supra-segmental features of language like stress, intonation and juncture

PSO 11. To understand the syntagmatic (horizontal relationship of words in a sentence) and Paradigmatic (vertical relationship of words i.e. vocabulary) relationship of words in a sentence

## COs Course Outcomes “Health & Physical Education”

<b>B.A. -1st Semester (Health &amp; Physical Education)</b>		
<b>I</b>	CO1	<b>Understand the Physical Education:</b> Meaning, definition, scope, Misconceptions, Aim, Objectives and its Importance in modern society.
	CO2	<b>Understand Health &amp; Hygiene:</b> Meaning, definition, importance of Health & Hygiene in life, Factors influencing Health and Hygiene of various body parts.
	CO3	<b>Understand Yoga:</b> Meaning, Concept, Historical development, Types, importance and benefits of Yoga and Pranayama.
	CO4	<b>Understand Human Anatomy and Physiology:</b> Meaning, definition, Importance of Human Anatomy and Physiology in Physical Education and Definition of Cell, Tissue, Organ and System, Structure and Properties of Cell.
<b>II</b>	CO5	<b>Understand Health Education &amp; First Aid:</b> Definition, Aim, Objectives, Scope, importance of Health Education. <b>Understand First Aid:</b> Meaning, Aim, Objectives, General Principles of First Aid and First Aid for Bleeding, Burns, Electric Shock, Drowning and Snake Bite and Common injuries.
	CO6	<b>Understand the Historical Prospects of Physical Education:</b> Pre-independence and Post – independence historical development of Physical Education in India, Role of IOA, SAI, NSNIS and YMCA in the development of Physical Education and Sports in India, Sports Policy of Haryana state and India.
	CO7	<b>Understand Physical Fitness:</b> Meaning, definition, importance, Components, Principles, Factors influencing of Physical Fitness. Meaning of Isometric, Isotonic and Isokinetic exercises.
	CO8	<b>Understand Human Bone Anatomy and Physiology:</b> Human Bone, Types and Function of bones in Human Body. Meaning and types of joints in Human Body.
<b>P</b>	CO9	Understand kho–kho, Badminton and Cricket games with ground specifications, general rules and general skills. Name and identification of bones in Human Body Understand Athletics: Shot Put (Measurements & Basic Techniques) Types of Starts - Crouch Start and standing starts (Basic Technique)

<b>III</b>	CO1	<b>Understand Safety Education and injuries:</b> Meaning, need and importance of Safety Education, understand types, causes, Principles, General treatment for sports Injuries i.e. Abrasion, Contusion, Sprain , Strain, Fracture and Dislocation of joints
	CO2	<b>Understand Common Diseases:</b> Meaning of Communicable and Non–communicable diseases, Modes of transmission, prevention and control of communicable diseases i.e. HIV/ AIDS, Hepatitis, Dengue, Typhoid, Malaria, Influenza, Allergy related diseases: Asthma and Sinuses.
	CO3	<b>Understand Balanced Diet:</b> Meaning, importance, Components, sources and Factors affecting balanced diet and Harmful effects of Junk Food on our body
	CO4	<b>Understand Anatomy and Physiology of Circulatory System:</b> Structure, Function of Heart, Systemic and Pulmonary Circulation and Effects of exercise on Circulatory System.
<b>IV</b>	CO5	<b>Understand Warming Up and Cooling Down:</b> Meaning, types, significance, Methods and Physiological aspects of warming up and cooling down.
	CO6	<b>Understand Psychological aspects of Physical Education:</b> Meaning Need and importance of Psychology and sports Psychology Understand meaning, laws of Learning and Learning curve
	CO7	<b>Understand Major Sports Events:</b> Ancient, Modern Olympic Games, Asian Games and Common Wealth Games.
	CO8	<b>Understand Anatomy and Physiology of Respiratory system:</b> Respiratory

		Organs, Physiology of respiratory System, Effect of exercise on respiratory System and Terminology of respiration: Tidal Volume, Residual Volume and Total Lung Capacity.
<b>P</b>	CO9	<b>Understand and Practical knowledge of Measurement of Body Mass Index, Games and Athletics:</b> Normal Range of B.M.I for (Children, Women and Men), Basketball, Football, Kabaddi Game (With ground specifications, general rules and skills) and Athletics; Discus throw and Long Jump (Specifications, general rules and general skills)

<b>V</b>	CO1	<b>Understand Growth &amp; Development:</b> Meaning and definition, Stages, Principles and factors influencing of Growth and Development and Age and sex difference in relation to physical activities and sports.
	CO2	<b>Understand Sports Organization and Administration:</b> Meaning, Principles, importance, Intramural and Extramural activities of organization and administration in Physical Education and Sports. Tournaments and their types (League and Knock out )
	CO3	<b>Understand Body Posture:</b> Meaning, importance of good posture, Causes of poor posture, Symptoms, causes of Postural Deformities i.e., Lordosis, Kyphosis, Scoliosis, Flat Feet, Knock Knee and Blow Legs, Precautions and Remedies for postural deformities.
	CO4	<b>Understand Anatomy and Physiology of muscle and Blood:</b> Types of Muscles in human body and Effects of exercise on it and Composition and functions of Human Blood.
<b>VI</b>	CO5	<b>Understand Motivation and Socialization:</b> Meaning, definition, types and importance of motivation in sports. <b>Understand</b> meaning of Socialization and Socialization through sports and effect of social behavior on performance of sports person.
	CO6	<b>Understand Sports Training and Doping</b> Meaning, definition, factors affecting sports training and types of sports training: Circuit training, Interval Training and Continuous Training. <b>Understand Doping:</b> Meaning, types and its effects on health.
	CO7	<b>Understand Sports Biomechanics:</b> Meaning, definition, Importance of sports biomechanics. <b>Understand</b> Newton's Laws of motion and their application in sports. <b>Understand</b> Levers: Meaning, types and their application in Sports
	CO8	<b>Understand Anatomy and Physiology:</b> Organs, Structure of Digestive System, Mechanism of food digestion and effects of exercise on Digestive System.
<b>P</b>	CO9	<b>Understand Pranayam:</b> Bhramari, Anulom Vilom and Kapal Bhati. Volleyball/ Hockey/Judo/Boxing/Wrestling/Self-defense game tactics, Ground Specifications, General rules and General Skill. <b>Understand Bandages its types and Arm Slings</b> <b>First Aid:</b> First aid for different injuries and circumstances, items of first aid box and their uses.

### PO1 Programe Outcomes of Health & Physical Education

<b>I</b>	PO1	To give basic knowledge and introduce about Physical Education its meaning, scope in present scenario and importance in our society.
	PO2	<b>Give basic knowledge about Health &amp; Hygiene and, how :</b> Meaning, definition, importance of Health & Hygiene in life, Factors influencing Health and Hygiene of

		various body parts.
	PO3	Ability to Understand Yoga and mainly Astang Yoga and Pranayama
	PO4	<b>To make basic Understanding of students about Human Anatomy and Physiology and also to give knowledge about Cell:</b> Meaning, definition, Importance of Human Anatomy and Physiology in Physical Education and Definition of Cell, Tissue, Organ and System, Structure and Properties of Cell.
<b>II</b>	PO5	<b>Understand and give knowledge Health Education &amp; First Aid:</b> Definition, Aim, Objectives, Scope, importance of Health Education. <b>Understand First Aid:</b> Meaning, Aim, Objectives, General Principles of First Aid and First Aid for Bleeding, Burns, Electric Shock, Drowning and Snake Bite and Common injuries.
	PO6	<b>To make able the students to understand the Historical Prospects of Physical Education:</b> Pre-independence and Post – independence historical development of Physical Education in India, Role of IOA, SAI, NSNIS and YMCA in the development of Physical Education and Sports in India, Sports Policy of Haryana state and India.
	PO7	<b>To make able the students to understand Physical Fitness:</b> Meaning, definition, importance, Components, Principles, Factors influencing of Physical Fitness. Meaning of Isometric, Isotonic and Isokinetic exercises.
	PO8	<b>To give knowledge to the students to understand Human Bone Anatomy and Physiology:</b> Human Bone, Types and Function of bones in Human Body. Meaning and types of joints in Human Body.
<b>P</b>	PO9	Make able to play and understand: kho–kho, Badminton and Cricket games with ground specifications, general rules and general skills. Name and identification of bones in Human Body Understand Athletics: Shot Put (Measurements & Basic Techniques) Types of Starts - Crouch Start and standing starts (Basic Technique)

<b>III</b>	PO1	<b>To Understand Safety Education and sports injuries:</b> Meaning, need and importance of Safety Education, understand types, causes, Principles, General treatment for sports Injuries i.e. Abrasion, Contusion, Sprain , Strain, Fracture and Dislocation of joints
	PO2	<b>To give knowledge of Common communicable Diseases:</b> Meaning of Communicable and Non–communicable diseases, Modes of transmission, prevention and control of communicable diseases i.e. HIV/ AIDS, Hepatitis, Dengue, Typhoid, Malaria, Influenza, Allergy related diseases: Asthma and Sinuses.
	PO3	<b>Ability to understand Balanced Diet:</b> Meaning, importance, Components, sources and Factors affecting balanced diet and Harmful effects of Junk Food on our body
	PO4	<b>Ability to understand Anatomy and Physiology of Circulatory System:</b> Structure, Function of Heart, Systemic and Pulmonary Circulation and Effects of exercise on Circulatory System.
<b>IV</b>	PO5	<b>Ability to understand Warming Up and Cooling Down:</b> Meaning, types, significance, Methods and Physiological aspects of warming up and cooling down.
	PO6	<b>Understand Psychological aspects of Physical Education:</b> Meaning Need and importance of Psychology and sports Psychology Understand meaning, laws of Learning and Learning curve
	PO7	<b>Understand Major Sports Events:</b> Ancient, Modern Olympic Games, Asian Games and Common Wealth Games.
	PO8	<b>Ability to understand Anatomy and Physiology of Respiratory system:</b> Respiratory Organs, Physiology of respiratory System, Effect of exercise on respiratory System and Terminology of respiration: Tidal Volume, Residual

		Volume and Total Lung Capacity.
<b>P</b>	PO9	<b>Understand and Practical knowledge of Measurement of Body Mass Index, Games and Athletics:</b> Normal Range of B.M.I for (Children, Women and Men), Basketball, Football, Kabaddi Game (With ground specifications, general rules and skills) and Athletics; Discus throw and Long Jump (Specifications, general rules and general skills)
<b>V</b>	PO1	<b>Understand Growth &amp; Development:</b> Meaning and definition, Stages, Principles and factors influencing of Growth and Development and Age and sex difference in relation to physical activities and sports.
	PO2	<b>To give knowledge about Sports Organization and Administration:</b> Meaning, Principles, importance, Intramural and Extramural activities of organization and administration in Physical Education and Sports. Tournaments and their types (League and Knock out )
	PO3	<b>To give knowledge about good and bad Body Posture:</b> Meaning, importance of good posture, Causes of poor posture, Symptoms, causes of Postural Deformities i.e., Lordosis, Kyphosis, Scoliosis, Flat Feet, Knock Knee and Blow Legs, Precautions and Remedies for postural deformities.
	PO4	<b>Understand and get basic knowledge of Anatomy and Physiology of muscle and Blood:</b> Types of Muscles in human body and Effects of exercise on it and Composition and functions of Human Blood.
<b>VI</b>	PO5	<b>Understand in detail about Motivation and Socialization in sports:</b> Meaning, definition, types and importance of motivation in sports. <b>Understand</b> meaning of Socialization and Socialization through sports and effect of social behavior on performance of sports person.
	PO6	<b>Understand different types of Sports Training and to give knowledge about Doping:</b> Meaning, definition, factors affecting sports training and types of sports training: Circuit training, Interval Training and Continuous Training. <b>Understand Doping:</b> Meaning, types and its effects on health.
	PO7	<b>Understand basic knowledge of Sports Biomechanics:</b> Meaning, definition, Importance of sports biomechanics. <b>Understand</b> Newton's Laws of motion and their application in sports. <b>Understand</b> Levers: Meaning, types and their application in Sports
	PO8	<b>Helps to understand Anatomy and Physiology of Digestive system:</b> Organs, Structure of Digestive System and Mechanism of food digestion and effects of exercise on Digestive System.
<b>P</b>	PO9	<b>Helps to understand types of Pranayam and basic knowledge about different games:</b> Bhramari, Anulom Vilom and Kapal Bhati. Volleyball/ Hockey/Judo/Boxing/Wrestling/Self-defense game tactics, Ground Specifications, General rules and General Skill. <b>Understand and give practical knowledge about Bandages its types and Arm Slings</b> <b>First Aid:</b> First aid for different injuries and circumstances, items of first aid box and their uses.

### PSO1 Programme Specific Outcomes of Health & Physical Education

The programme specifically made the Students to enable through knowledge and acquired skills:

	<b>B.A. -1st Semester (Health &amp; Physical Education)</b>
	<b>The programme specifically made the Students to enable through knowledge and</b>

		<b>acquired skills:</b>
<b>I</b>	PSO1	<b>Understand the Physical Education its area, aim, objectives and importance in our daily life and eliminate the Misconceptions about it.</b>
	PSO2	<b>Understand Health education, Personal Hygiene and healthful living with healthy habits in our life.</b>
	PSO3	<b>Understand History of Indian Science Yoga and pranayama and its contribution in our busy life.</b>
	PSO4	<b>Understand Human Anatomy and Physiology and basic unit of life ‘cell’</b>
<b>II</b>	PSO5	<b>Understand how to use First Aid and How it can save our life.</b>
	PSO6	<b>Understand the Historical and present institution/ sports policies of India which helps to promote sports.</b>
	PSO7	<b>Understand Physical Fitness and its components.</b>
	PSO8	<b>Understand Human Anatomy and Physiology of osteology and arthrology in Human Body.</b>
<b>P</b>	PSO9	<b>Understand and playing experience of kho–kho, Badminton, Cricket games and Athletics with ground specifications, general rules and general skills.</b>

<b>III</b>	PSO1	<b>Understand Safety Education and sports injuries and their general treatment.</b>
	PSO2	<b>Understand Communicable Diseases. its Modes of transmission, prevention and control.</b>
	PSO3	<b>Understand Balanced Diet its components and Junk Food effects on our body.</b>
	PSO4	<b>Understand Anatomy and Physiology of Circulatory System its organs and how exercise increase its efficiency.</b>
<b>IV</b>	PSO5	<b>Understand Warming Up and Cooling Down and its physiological aspects on body.</b>
	PSO6	<b>Understand Psychological aspects i.e., learning in Physical Education and sports.</b>
	PSO7	<b>Understand Major Sports Events of world i.e., Ancient, Modern Olympic Games, Asian Games and Common Wealth Games.</b>
	PSO8	<b>Understand Anatomy and Physiology of Respiratory system its organ and exercise benefits on it.</b>
<b>P</b>	PSO9	<b>Understand and Practical knowledge of Measurement of Body Mass Index and Basketball, Football, Kabaddi Game and Athletics.</b>

<b>V</b>	PSO1	<b>Understand Growth &amp; Development in different stages of life in relation to sports.</b>
	PSO2	<b>Understand Sports Organization, Administration and tournament with fixture specification.</b>
	PSO3	<b>Understand Body good and bed Posture and Remedies exercises for postural deformities.</b>
	PSO4	<b>Understand Anatomy and Physiology of muscle and Blood with their functions in body.</b>
<b>VI</b>	PSO5	<b>Understand Motivation and Socialization in sports and how sports working as socialization agency.</b>
	PSO6	<b>Understand different types of Sports Training and Doping in sports.</b>
	PSO7	<b>Understand Sports Biomechanics and how it is giving help in the enhancements in sports.</b>
	PSO8	<b>Understand Anatomy and Physiology of Digestive system and its organ.</b>
<b>P</b>	PSO9	<b>Understand types of Pranayam in detail i.e., Bhramari, Anulom Vilom and Kapal Bhati.</b>

	Practical knowledge about Volleyball/ Hockey/Judo/Boxing/Wrestling/Self-defense game tactics and General Skill. <b>Understand Bandages its types and Arm Slings in First Aid</b>
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**Programe Specific Outcomes of Sports Activities:**

**Students will be able to:**

- Demonstrate an understanding of common and specialized content, and scientific and theoretical foundations for the delivery of an effective physical education program.
- Use physical literacy to demonstrate skillful performance in physical education content and areas, and health-enhancing levels of fitness.
- Engage students in meaningful learning experiences through effective use of motor skills.
- Use feedback, technology, and instructional and managerial skills to enhance student learning and coaching.
- Select and implement appropriate assessments to monitor students' progress and guide decision making related to instruction and learning.
- Develop imitation and demonstrate behaviors essential to becoming effective professionals.
- Helps to develop professional ethics and culturally competent practices.
- To demonstrate knowledge of promotion/advocacy strategies for physical education and expanded physical activity opportunities that support the development of physically literate individuals.

**The programe specifically made the Students will demonstrate proficiency through knowledge and acquired skills enabling them to:**

- Understand and utilize various sports training methods.
- Assess individual levels of fitness components effectively.
- Create a safe, progressive, methodical and efficient activity based plan to enhance improvement and minimize risk of injury.
- Identify common health and fitness myths along with trends involved with the evolving nature of physical education and sports.
- Develop an appreciation of physical activity as a lifetime pursuit and a means to better health.

**Home Science Department**  
**Course Outcomes**

**Sem I**

**Human Resource Management:** This course is to understand Home Science, its scope and opportunities, management of human and non-human resources, consumer education and work simplification techniques.

CO I	Understanding what is Home Science and job opportunities in all disciplines of Home Science.
CO 2	Management of Human and non- human resources.
CO 3	Application of different color schemes in interior decoration.
CO 4	Using different work simplifications techniques at home.
CO 5	Helps students understand their rights and responsibility as a consumer and their role in buying process and also helps to make well-informed decisions.

**Sem II**

**Health and Hygiene:** This course is about the importance of health and hygiene, infectious diseases, disinfectants, immunity and emerging health problems in women.

CO 6	Realising the importance of a clean environment for a healthy life.
CO 7	Prevention from the spread of infectious diseases.
CO 8	Importance of immunity in life and the ways to improve it.
CO 9	Causes and prevention of common emerging problems in women like Breast Cancer, Cervical Cancer.
CO 10	Understanding the use of disinfectants.

**Sem III**

**Human physiology:** This course is about to understand different systems of a human being.

CO 11	Understand normal functioning of different systems of Human body like digestive, respiratory, circulatory, reproductive, nervous and endocrine systems etc.
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**Sem IV**

**Clothing and Textiles:** This course is about manufacturing and properties of different fibers, finishing processes, different weaves, laundry reagents and stains removal.

CO 12	Understanding properties and manufacturing of different fibers.
CO 13	Use of finishes to be done on fabrics.
CO 14	Use of different weaves to add variety in the fabrics.
CO 15	Laundry and reagents and their usage.
CO 16	How to remove stains from the fabric.
CO 17	Creating clothes with an esthetic expression.

**Sem V**

**Food & Nutrition:** This course is about the importance of foods in nutrition in maintaining good health, planning meals for normal and in diseased condition, food preservation, methods of cooking in order to prevent the spoilage/wastage of food and nutrients.

CO 18	Understanding different food groups, essential nutrients and the effect of their deficiency and excess in the body.
CO 19	Planning meals for different age groups keeping in mind their recommended allowances.
CO 20	Managing therapeutic diets to optimize the nutritional needs of the person in order to treat a variety of diseases and disorders and to improve the eating capabilities of a patient.
CO 21	Help in promoting healthy life as well as reducing the risk of chronic diseases.

CO 22	Preventing the decay and spoilage of produced fresh foods and storing it under prescribed conditions.
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### Sem VI

**Human Development:** This course is about the growth and development of a child from birth till death, complications during pregnancy, common ailments during childhood, feeding a newborn etc.

CO 23	Understand the importance of child psychology with reference to all round development of a child – Personality development, language development, intelligence.
CO 24	Understand the characteristics and problems of different stages of a life cycle and suggest the solutions.
CO 25	Understand the signs & discomforts of pregnancy, care and feeding of a new born child,
CO 26	Understand the importance of play during childhood.
CO 27	Understand various common ailments of childhood and their remedies.

### Practical Work

Sem I	Interior Decoration- Making of Rangoli, Alpana, Flower arrangement, Table setting, Pot painting and decoration, Driftwood, Menu card preparation and Floor plan.
Sem II	Cleaning of different metals, Preparation of articles for interior decoration, visit to Health Center for vaccination, First aid.
Sem III	Preparation of samples of embroidery stitches, Seams and processes, making articles of tie and dye and knitting.
Sem IV	Understanding the working of sewing machine, drafting and stitching of different garments.
Sem V	Preparation of different nutritious recipes by using different cooking methods.
Sem VI	Meal planning for different age groups with reference to their nutritional requirements and therapeutic nutrition.

### List of PSOs:

PSO 1	Efficient use of resources available at home and work
PSO 2	Contribute to community development through effective utilization of resources
PSO 3	Understand the various diseases, their cause & prevention through diet therapy.
PSO 4	Understand individual development and change from womb to tomb
PSO 5	Understand influence of families and communities on the process of growth and development
PSO 7	Develop entrepreneurial skills in textiles and fashion
PSO 8	Enable to pursue higher education and research

### Credits-

6 theory periods each of 40 min. per week over a semester. (for B.A. I)

8 theory periods each of 40 min. per week over a semester (for B.A. II and III yrs).

2 practical each of 2 hrs. per week. (for all classes).

## Department of Sanskrit

### Department of Sanskrit

COs, Pos and PSOs Submitted by HOD, Department of Sanskrit,  
L.G.N.COLLEGE,Ladwa, KKR

List of Cos :

- Co1 हितोपदेश 14 वीं शताब्दी के आसपास की नीति पूर्ण कथाओं का विवेचन करता है
- Co2 नीतिशास्त्र महाकवि भर्तृहरि के नीतिकथा पूर्ण कथों का संग्रह है
- Co3 सन्धि प्रकरण वर्णों के परस्पर मेल से अवगत करता है
- Co4 शब्द-रूप व धातुओं से तीन लिंग व पुरुषों का पता चलता है
- Co5 श्रीमद्भगवद्गीता महाभारत के भीष्म पर्व का कर्म प्रधान महाकाव्य है
- Co6 छन्द सस्वर गान के लिए उत्तम साधन है
- Co7 पंचरात्रम महाकवि भास का तीन अंकों का नाटक है
- Co8 रघुवंश महाकाव्य में महाकवि कालिदास 31 सूर्यवंशी राजाओं का मर्म स्पर्शी विवेचन करता है
- Co9 लघुसिद्धान्तकौमुदी महाकवि वरदराज का पाणिनी सूत्रों पर विरचित ग्रन्थ है
- Co10 शिवराजविक्रम महाकवि अम्बिकादास का 19 वीं शताब्दी के आसपास का ऐतिहासिक उपन्यास है
- Co11 समास प्रकरण के अंतर्गत सभी भागों को शामिल किया गया है
- Co12 अष्टुद्धि संशोधन वाक व्यवहार के लिए अति आवश्यक है
- Co13 अभिज्ञान शाकुन्तलम महाकवि कालिदास का 7 अंकों में निबन्ध सर्वोत्तम नाटक है
- Co14 काव्य सौंदर्य के लिए अलंकारों का होना अति आवश्यक है
- Co15 कारक के अंतर्गत सभी भागों को शामिल किया गया है
- Co16 संस्कृत साहित्य का इतिहास केन्द्र आरण्यक उपनिषद् ब्राह्मण आदि का बोध करता है
- Co17 ईशास्त्यः (ईश्वर त्वी मृति)
- Co18 उप त्वां व्रजामः (इव सव आच्छा व्रजत वदते है)
- Co19 उर्वरः रामः

**Co20** सावुवतं चट (सज्जनॉ के आचरण पड चल

**Co21** विभीषणस्य विलापः (विभीषण का विलाप)।

**Co22** अनुशासनम्

**Co23** सदसुतम्

**Co24** दर्जनसंगो भयावहः

**Co25** नीलवर्णः शृगालः

**Co26** नीतिसुक्तयः

### **Programme Outcomes:-**

<b>P.O(1)</b>	छात्रों में संस्कृत समझने की कौशल का विकास होता है।
<b>P.O(2)</b>	छात्रों को भारतीय संस्कृति का परिचय होगा।
<b>P.O(3)</b>	बच्चों के जीवन में सद्व्यवहार को समझने की समझ का विकास होगा।
<b>P.O(4)</b>	संस्कृत भाषा में रूचि बढ़ती है।

### **Programme Specific Outcomes:-**

संस्कृताध्ययन हेतु।

<b>PSO1</b>	छात्रों की विशिष्ट अभिरूचि का विकास।
<b>PSO2</b>	बच्चों में नैतिकव्यवहार के ज्ञान की वृद्धि होगी।
<b>PSO3</b>	'वासुदेव कुटुम्बकम्' जैसे संस्कृतश्लोकों से छात्रों में अन्तर्राष्ट्रीय भावना की वृद्धि होगी।
<b>PSO4</b>	विज्ञानसंस्कृत छात्रों में संस्कृत को लेकर रूचि का विकास होगा।
<b>PSO5</b>	हिन्दी, अंग्रेजी आदि भाषाओं के शब्दों को संस्कृत में परिवर्तन करने की क्षमता का विकास होगा।
<b>PSO6</b>	संस्कृत व्याकरण के महत्व को लेकर विकसित ज्ञान की वृद्धि होगी।

## **Punjabi**

### **Programme Out comes**

PO 1.Student after completing course in Punjabi will be able to develop their reading ,  
writing & Spoken Skill in Punjabi

PO 2.Able to know the Biography of various Poets & Writers of Punjabi

PO 3.Able to translate Punjabi to other languages like English & Hindi

PO4 .Able to go for higher studies in Punjabi

### **Programme Specific outcomes**

PSO 1.Able to discuss about the Punjabi Sahitya among people &help in creating interest  
among the students.

PSO 2.They may choose the field as translator.

### **Course outcomes**

B.A.I

Modern Punjabi Poetry Book Kavi Nad

Poets: Bhai Veer Singh, Dhani Ram Chatrik, Professor Mohan Singh, Baba Balwant Singh, Dr. Hari Bhajan Singh, Hari Bhajan Halwarvi, Dayal Chand Miglani, Hari Bhajan Singh Komal, Puran Singh ,Amrita Pritam, Santokh Singh Dheer, Pritam Singh Safil, Shiv Kumar Batalwi, Awtar Singh Pass, Himmat Singh Sodhi, Hari Bhajan Singh Renu

Novel-Pavitra Papi ( Nanak Singh)

Ekangi- Bahu rangi

Grammer- Ideoms, Correct –incorrect words, Personal letters, official letters, Official words

B.A.II

Kavi Taranga

Poets: bulle Shah ,Muk bal, Hasham, Najabat, Agra, Vajid, Varish Shah, kadar Yar, Pir Mohammad, shah Mohammad,

Katha Yatra: Arzee, Dhara, Rab di maut, Zinnat Appa, Do Anne da Gha, Sanjhi kand, Anderli jot, But Shikan, Sheshnag, Goe, Badda Admi, Kurahia, Hummash,

Punjabi Sahitya da ithas: 1701 to 1850

Grammer: Essay, Conjunction, Paragraph Writing, Translation from English to Punjabi, Synonyms, Sahitak vocabulary,

Chhand: Korda, Sortha, Baint, Chaupai, Kavita, Dudi, Davaya, Savaya, Dohira,

Alankar: Upma, Rupah, Ati kathani, Drishthang, Virodh, Anuprash, Virokti, Prodpati, Lash, Locokti,

B.A.III

Kavi jotan: Guru Arjan Dev, Guru Teg Bahadar, Shah Hussain, Pillu, Guru Govind Singh Guru Nanak Dev, guru Angad Dev, Baba Farid, Damodar, Bhai Guru Dass,

Gadh Darpan : Punjabi Batchit, Vatan Dar Pyar , Bhed chal, Gushal Khana, Gharvich hi guri ai, Mera Nisafal Pyar, Gurbani, Natak di nakkar dadi, Chitrakala di samartha, Santa da Lai Sarda, Khuda Bachae chugal khoran to, Bahu pakhi sakshiat, Dr. Ambedkar,

Grammer: Sahitik Roop – Novel , Nikki Kahani, NAtak, Ekangi, Rekha chitra, Safarnama, Essay, Biography, Auto Biography, Translation Punjabi to Hindi .

Kavi Roop : Kissa, var, Jangnama, Kafi, Bara maha, Maha Kavi, Rubai, Gajal,

Punjabi Sahitya da Itihas: Starting to 1700, opposite words,

## Department of Hindi

### Course Outcomes

Co.1 कविता के माध्यम से सन्त, सूफ़ी काव्य ,निर्गुण सगुण काव्य और अष्टछाप काव्य का विवरण प्रस्तुत करना है।

Co.2 हिन्दी साहित्य इतिहास का नामकरण ,विशेषताओं का ज्ञान प्राप्त होता है तथा आदिकालिन साहित्य का सम्पूर्ण जानकारी प्राप्त होती है।

Co.3भाषा का विकास,अलंकार,शब्द -शक्तियाँ तथा रस के माध्यम से काव्य का निर्माण होता

है। काव्य सौन्दर्य निखरता है।

Co.4 जयशंकर प्रसाद कृत ध्रुवस्वामिनी नाटक ऐतिहासिकता से जुड़ा हुआ है। तीन अंको मे विभक्त इस नाटक मे नारी शोषण दिखाया गया है।

Co.4 भक्तिकाल स्वर्ण काल है ,इस युग मे रामकाव्य ,कृष्णकाव्य पर गहन चिन्तन किया जाता है।

Co.5 भाषा के रुप मानक भाषा।,राजभाषा।,राष्ट्रभाषा,माध्यम भाषा।,मातृभाषा ,हिन्दी वर्तनी की समस्या का समाधा

Co.6काव्य मन के उद्गारो को व्यक्त करने का सशक्त माध्यम है। आधुनिक हिन्दी कविता

द्वारा आधुनिक युग की समस्याओं ,समाधान तथा आधुनिकता का बोध होता है

Co.7 रीतिकालीन साहित्य शृंगार,रीतिनीति,कलाओं,कामुकता तथा नारी शोषण का काल है।

Co.8 कम्प्यूटर ,इंटरनेट,मीडिया ,प्रेस अवधारणा आधुनिकता की ओर ले जाने वाले उपकरण नहै।

Co.9 कहानी जीवन के यथार्थ से जुड़ी होती है। कहानी से हमे समाज का रुप ,नारी रुप।,कला की कदर ,भेदभाव को उजागर करना करता है

Co.10आधुनिक गद्य साहित्य कहानी ,नाटक,उपन्यास ,निबन्ध आदि का उदभव और विकसित रुप है।.

Co.11 पारिभाषिक शब्दावली कामकाजी भाषा का रुप है।

Co.12समकालीन कविता मनुष्य को जमीन से जोड़े रखती है।

Co.13 आधुनिक हिन्दी कविता छायावाद ,प्रयोगवाद,प्रगतिवाद,नई कविता का रुप है।

Co.14 प्रोजनमूलक पल्लवन, पत्र लेखन तथा कार्यालयी भाषा का ज्ञान कराती है।

Co.15 नव्यतर गद्य नवीन विधाओं जैसे रिपोर्ताज ,यात्रा हास्य।-व्यंग आदि से अवगत कराती है।

Co.16 हरियाणवी साहित्य हमारे प्रदेश से जुड़ा हुआ है तथा हमारी संस्कृति को उजागर

करता है।

Co.17 प्रोजनमूलक हिन्दी आधुनिक उपकरण कम्प्यूटर ,मीडिया, पत्रकारिता , इंटरनेट से जुड़ा हुआ है।

Co.18 एकांकी,संस्मरण आदि से सामाजिक व व्यक्तिगत जीवन के उतार -चढ़ाव को दर्शाता है।

Co.19कविताओं मे मानसिकता के चित्रण साथ -साथ पत्र लेखन का प्रशिक्षण भी किया गया है।

## **programme outcomes**

1.मध्यकालिन कवियों तथा आदिकालिन साहित्य का विस्तार से छात्रों को ज्ञान होता है।

2 हिन्दी साहित्य का गहन अध्ययन कराया जाता है।

3 छात्रों को भाषा की जिज्ञासा और शुद्धता से बौद्धिक विकास होता है।

4 .कविता से छात्रों की आंतरिक भाव और मन के उदगार प्रकट होता है।

5 नाटक छात्रों को रंगमंच से जोड़े रखता है।

6 कहानी ,उपन्यास आदि छात्रों को संस्कृति से जोड़े रखती है।

7. हरियाणवी साहित्य राज्य के लोक जीवन और संस्कृति से छात्रों को जोड़े रखती है।

8 .मीडिया ,इंटरनेट छात्रों को वैज्ञानिक युग से जोड़ते है।

9 .एकांकी, संस्मरण, रिपोर्ताज,जीवनी ,आदि से छात्रों की नवीन विधाओं का ज्ञान होता है।

10 पारिभाषिक शब्दावली से छात्रों को कामकाजी भाषा का ज्ञान होता है।  
कहीसपनररा

## **Cos, Pos and PSOs of Political Science**

To understand the concept of Indian Constitution-Sources its Features, Preamble, Fundamental Rights, Fundamental Duties and Directive Principles of State Policy

- To understand the concept of Union Executive - President, Vice-President, Prime Minister, Council of Ministers
- To understand the concept of State Executive- Governor, Chief Minister and Council of Ministers
- To understand the concept of Legislature- Parliament-Composition and Functions; Speaker of Lok Sabha Amendment Process
- To understand the concept of State Legislature-Vidhan Sabha
- To understand the concept of Panchayati Raj Institutions-History, Basic Features and 73rd Amendment
- To understand the concept of Judiciary-Supreme Court, High Courts, Judicial Review and Judicial Activism
- To understand the concept of Federalism and its Working with reference to Centre-State Relations
- To understand the concept of Demand For State Autonomy
- To understand the concept of Emerging Trends in Indian Federalism
- To understand the concept of Election Commission, Electoral Process and its Defects and Voting Behaviour, Electoral Reforms, Problem of Defection
- To understand the concept of Party System in India: National and Regional Political Parties, Interest and Pressure Groups
- To understand the concept of Role of Caste, Religion, Language, Regionalism in India
- To understand the concept of Politics of Reservation
- To understand the concept of Emerging Trends and Challenges before Indian Political System
- To understand the importance of the profound thinkers of India like Raja Ram mohan rai, Swami Dayanand, Swami Vivekanand Aurbind Ghosh, Lala Lajpat Rai, Bal Gangadhar Tilak, Dada Bhai Narojee, Gopal Krishan Gokhle, J.P. Narayan, Ram Manohar Lohia, Mahatma Gandhi & M.N, Roy, Jawaharlal Nehru & B.R.Ambedkar, Subhash Chander Bose & Bhagat Singh and their formative influence in Social, Political, Religious and Economic theories
- The syllabus of the subject offers a diverse and flexible approach designed to help students prepare for meaningful career prospects in government sector, public services, profession of law, journalism, teaching and other related areas.
- To understand the concept of Comparative Politics, its scope; Traditional & Modern Concerns and Comparative Methods
- To understand the relative importance of different political approaches in a comprehensive understanding of the concept of comparative politics
- To understand the concept of constitutionalism, its history, types, nature and problems in modern times
- To understand the concept of constitutional formal structure, executive, legislative and judiciary
- To understand the concept of constitutional Informal Structures– Political Parties and Pressure Groups

- To understand the concept of Conventions, Legacies and Basic features of Constitutions of UK & USA
- To understand the concept of Socio-Economic basis of Constitutions of UK & USA
- To understand the concept of Comparative Study of Executive, Legislation and Judiciary System of UK & USA
- To enhance the capability of students to identify the differences between major political parties in UK & USA and help them understand the functioning electoral processes
- To develop an understanding of the emergence of political institutions, their operations, their interaction with internal and external environment, and their formative influence in shaping individual and collective behavior with special references of UK&USA.
- To understand the basic factual information about politics within a particular

### **Programme Outcomes (POs)**

- To better understand why countries choose different mechanisms and institutions for governing and to comprehend the value of these choices
- To understand the use of the major theories, concepts, and tools of comparative political science in a judicious and responsible manner
- To understand the relationships among political, social, and economic phenomena within countries and in the international environment
- To understand the political consequences of differing practices and historical paths across the countries
- To understand the concept of democracy and how it is successfully sustained
- To develop the capacity to assess objectively the outputs of political systems
- To learn about political, social and religious views and implement in present scenario.

### **Programme Specific Outcomes (PSOs)**

- The course as a whole is meant to provide a sense of the broad streams of Indian thought while encouraging a specific knowledge of individual thinkers and texts.
- Based on the study of individual thinkers, the course introduces a wide span of thinkers and themes that defines the modernity of Indian political thought.
- The objective is to study general themes that have been produced by thinkers from varied social and temporal contexts.
- Selected extracts from original texts are also given to discuss in the class.
- Emphases on understanding the issues of contemporary India in a larger historical perspective
- Analyses the nuanced interconnections between the present and the past
- Develops a sense of rootedness to reflect upon issues and challenges of contemporary India.
- The basic focus of study is on individual thinkers whose ideas are framed by specific themes
- Describes the specific elements of Indian Political Thought spanning over two millennia.
- Motivates the students to understand the various political thinker's philosophy their relevance and objectives.

. **Indira Gandhi National College Ladwa, Kurukshetra**

**(Economics)**

**Paper: Microeconomics-I**

**Session: 2018-19**

**Subject code: EC21**

**Semester: First**

On completion of the course the students will be able to

CO 1	understand the basic terminology of micro economics and they will be able to provide definitions for fundamental economic concepts, such as, scarcity, choice, opportunity cost, utility, demand, supply, elasticity, cost and profit
CO 2	answer the questions what, how, and for whom should goods and services be produced with limited resources
CO 3	understand the factors on which demand of a commodity depends
CO 4	exhibit the measures of demand elasticity relative to change in price, income and price of substitutes
CO 5	Understand the behavior of consumers in making decisions on the allocation of limited resources in order to get maximum satisfaction
CO 6	understand the concept of production function in short run and long run and develop an understanding of law of diminishing marginal product, law of variable proportion and returns to scale
CO 7	understand the factors on which supply of a commodity depends and the students will be able to calculate the price elasticity of supply
CO 8	exhibit the calculation of various production costs fixed, variable and marginal cost
CO 9	understand the total, average and marginal revenue and break even analysis

**Paper: Microeconomics-II**

**Session: 2018-19**

**Subject code: EC22**

**Semester: Second**

On completion of the course the students will be able to

CO 1	compare and contrast the market structures, including perfect
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	competition, monopoly, monopolistic competition and oligopoly
CO 2	exhibit how firms under perfect competition, monopoly and monopolistic competition determine their price, output and profit maximization
CO3	gain the knowledge of marginal productivity theory of distribution, theory of wages, identify different types of rent and grasp different theories of rent and interest

**Paper: Macroeconomics-I**

**Session: 2018-19**

**Subject code: EC23**

**Semester: Third**

On completion of the course the students will be able to

CO 1	understand the nature ,scope and importance of macroeconomics
CO 2	demonstrate the process of measuring National Income Statistics, identify its components and analyze the various income identities
CO 3	understand the role of household sector, producer sector, government sector and rest of the world in circular flow of income in an economy
CO 4	understand Say's law of market, classical theory of employment and Keynesian theory of income and employment; demonstrate the principle of Effective Demand
CO 5	understand the meaning of consumption function, relationship between APC and MPC, Keynesian Psychological Law of Consumption
CO 6	Understand the meaning of capital and investment; types of investment and understand the relation between MEC and MEI

**Paper: Macroeconomics-II**

**Session: 2018-19**

**Subject code: EC24**

**Semester: Fourth**

On completion of the course the students will be able to

CO 1	understand the concept of multiplier and its relation with MPC and
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	MPS, demonstrate the working of multiplier
CO 2	understand Acceleration principle and the concept of Super Multiplier
CO 3	demonstrate the demand for and supply of money, high powered money, illustrate various version of quantity theory of money, Keynesian Liquidity theory of Money
CO 4	illustrate the classical theory of inflation understand the meaning of inflation, identify different types of inflation, causes and effects of inflation on different sectors of the economy
CO 5	examine different phases of trade cycle, demonstrate various trade cycle theories, understand the impact of cyclical fluctuation on the growth of business, and elaborate classical and Keynesian theories of interest

**Paper: Indian Economy-I**

**Session: 2018-19**

**Subject code: EC25**

**Semester: Fifth**

On completion of the course the students will be able to

CO 1	make a comparison between capitalistic, socialistic and mixed economy
CO 2	develop ideas of the basic characteristics of Indian economy, its potentials and different resources, make a comparison with developed economies
CO 3	Understand the importance, causes and impact of population growth and its distribution, translate and relate them with economic development
CO 4	Understand the current and historical scenario of poverty, causes and measures of eradication of poverty
CO 5	Understand the nature and types of unemployment in India, identify various causes of unemployment in India
CO 6	analyze the role of agriculture in Indian economy, causes of low productivity, demonstrate achievements and failures of green

	revolution
CO 7	understand the defects and measures of agricultural marketing, identify various sources of agricultural finance
CO 8	Understand the features and problems of SEZs

**Paper: Indian Economy-II**

**Session: 2018-19**

**Subject code: EC26**

**Semester: Sixth**

On completion of the course the students will be able to

CO 1	understand the role of industrialization, analyze the impact of liberalization, globalization and privatization on Indian economy,
CO2	Understand the growth and problems of small and large scale industry, have knowledge about information technology and software consultancy
CO 3	Understand the characteristics of industrial labour, have knowledge on the various causes of industrial dispute and initiatives taken by the govt. for their social security
CO 4	Understand the economic planning undertaken by Indian government, have knowledge on the various objectives, failures and achievement as the foundation of the on-going planning
CO 5	demonstrate trends, composition and direction of exports and imports
CO 6	Analyze the role of FDI, FII and MNCs in India,
CO 7	Understand external borrowings and BOP problem in India
CO 8	Establish relationship between international institutions and Indian economy

**Program outcomes (POs) of B.A. Economics**

On completion of graduation level the students would be able to

PO 1	develop the ability to explain core micro and macro-economic terms, concepts and theories
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PO 2	demonstrate the ability to employ the Economic way of thinking
PO 3	apply economic theories and concepts of contemporary social issues, as well as formulation and analysis of policy
PO 4	apply the oral and written communication skill within the discipline
PO 5	use critical thinking skill within the discipline of Economics and Economic matters
PO 6	recognize the role of different ethical values in Economic decisions
PO 7	develop on awareness of concern choices for undergraduate economic majors and the options graduate study

### **Program Specific Outcomes (PSOs) of B.A. Economics**

On completion of graduation level the students would be able to

PO 1	apply microeconomics theories to explain the behavior of consumers, producers, firms and industries in market-based system
PO 2	analyze macroeconomics theories of income and employment determination, including classical and Keynesian theory, for formulating the economic plans for an economy
PO 3	understand the features and structural changes of Indian economy and compare with growth pattern of developed economies and apply the theoretical knowledge in actual working of Indian economy

**COs, Pos and PSOs Submitted by HOD, Department of History,  
I.G.N.College,Ladwa, KKR**

**List of COs:**

CO-1 Describe the copper Civilization to urban Civilization in Indian Continental which emerged in about 5000 B.C.

CO-2 Understand how the Vedic Civilization was a Rural Civilization in Indian Continental which emerged in about 1500-600 B.C.

CO-3 Understand how First Urban revolution had started in India in 600 B.C.

CO-4 Understand how India became the first centralise state under the Mouraya's reign

CO-5 Understand how the social system declined in India from 600 B.C to the upliftment of downtrodden people in India, the rise of Buddhism and Jainism Movement

CO-6 Understand the political, social and economic conditions and their respective impact on cultural growth in Gupta's Empire

CO-7 Understand the emergence of many feudal states in whole India after the decline of Gupta's empire

CO-8 Understand the main purpose of Muslim invaders behind the conquest of India.

CO-9 Understand how Delhi Sultanate established according to Islamic political system

CO-10 Understand how new technological change occurred in India under the Delhi Sultanate which was used in Agricultural, Trade and commerce

CO-11 Understand the emergence of new social classes in Medieval time which was the result of a new State Formation

CO-12 Understand how composite culture started in Medieval India which was the result of growth of Literature, Art and Architecture

CO-13 Understand how new state and administration established in India after the decline of Delhi Sultanate under the Mughals

CO-14 Understand how Akbar Consolidated and Expanded the Mughal State to their liberal and secular policies

CO-15 Understand how Akbar revised their administration, based on State, after the expansion of the Mughal state

CO-16 Understand how Aurangzeb's, the Mughal emperor, policy resulted in the decline of Mughal state

CO-17 Understand how the cause of rivalry between French and British was to achieve mercantile supremacy in India and to save their imperial interest

CO-18 Understand how the objective behind the expansion of British empire in India was to achieve their economic interests

CO-19 Understand how the revolution of 1857 was the First War of Independence.

CO-20 Understand how the 1857 uprising resulted in an awareness of British imperialist policies and an understanding of the nature of colonial state leading to the formation of India as a nation

CO-21 Understand how the Indian National Congress was a symbol of rise of Nationalism in India

CO-22 Understand how the different dimensions of Indian Nationalism emerged time to time during the Indian National Movement, and its ultimate objective to accomplish India's Independence

CO-23 Understand the use of British Policy of Divide and Rule in India and their chief objective to safe their imperial interests

CO-24 Understand how the rise of Communalism in India was a cause of Political interests of different communities in India and imperial state

CO-25 Understand Mahatma Gandhi's struggle not only against the British Empire but also against Indian Social, Economic and political system

CO-26 Understand the significance of Mahatma Gandhi's theory of Non-Violence against British State for the Freedom of India

CO-27 Understand how the transition from feudalism to capitalism in Europe and emergence of Renaissance and Reformation influenced the making of

Modern Europe which started in 15th-16th century

CO-28 Understand Mercantile Revolution as an early stage of capitalism in Europe

CO-29 Understand Scientific Revolution given new light and approaches to understand things and solutions of problems related to life

CO-30 Understand how the Revolution of England in 1688 started the process of liberalism in England and Europe and served an important role in the emergence of Democratic system in Europe

CO-31 Understand how the Industrial Revolution started and considered as the second stage of capitalism in Europe and World

CO-32 Understand how the Agriculture Revolution was followed by the commercialization of Agriculture in Europe and World

CO-33 Understand how Imperial interests was the main cause of American Revolution and discuss the French Revolution.

CO-34 Understand the World War-1 was highly stage of the capitalism

CO-35 Understand how develop Fascism and Nazism were the Despotic rules in Europe and direct challenge to Democratic system in Europe and World

CO-36 Understand the World War-11, its main cause was imperial interest of European power , Fascism and Nazism

### **List of POs:**

PO 1. In Social History, Discussed the nature of family, condition of women, the Reform Movements during the Indian Renaissance like Brahmo Samaj, Arya Samaj, Prarthna Samaj, Ramkrishan Mission etc.

PO 2. Discussed the relevance of the profound thinkers and reformers like Ramanand, Kabir, Naamdev, Guru Nanak Dev, Raja Ram Mohan Rai, Swami Dayanand Saraswati and Swami Vivekanand in the history of India

PO 3. In Economic History, discussed the growth of Capitalism in India, Industrial Revolution, Agriculture Revolution, Banking System, Trade and Commerce and means of transport etc

PO 4. In Religious History, discussed the emergence of New Religion like Hinduism, Buddhism, Jainism, Islam and Sikhism etc. Discussed the role of Christianity in Asia and Europe, in medieval time

PO 5. In Cultural History, discussed the gradual development of societies, their customs and traditions, education systems, growth of architecture, literature and arts

PO 6. In Military History, discussed the disintegrating impact of War in the post-war World; the exigencies of post-war life and relevance of various forces of defence in a country. The devastating impact of the use of atom- bomb on Hiroshima and Nagasaki in Japan and its aftermath

#### **List of PSOs:**

PSO 1. Organized Group-Discussions (GDs) for History students on the college campus to enhance their abilities to engage in a constructive historical discourse and to learn the importance of cogency of argumentation in academic discussions

PSO 2. Introduced the methods of E-Learning in the teaching of the subject to acquaint the students with the advance and variegated sources used for the analysis of any historical concept

PSO 3. Organized the History Students' Association in the college to facilitate the students with opportunities to have active and positive interaction about various historical concepts

PSO 4. Organized quiz competitions among the college students to make them articulate and intelligibly expressive

PSO 5. Engaged the students in the activity of visiting college library and instructed them how to utilize the assets available in the library

PSO 6. Organized historical tours for the college students giving them the opportunity to have the firsthand knowledge of the historical events they study in

their curriculum. Showed them historical museum, archaeological sites and monuments

PSO 7. The History Department has made special endeavours to collect antiquities from the sites of Harappan civilization like *Rakhigari* (Jind) and *Bhagwanpura* (Kurukshetra) for the grand objective of establishing their own Historical Museum in the college.

## **MATHEMATICS**

### **Course:-BA/BSc**

#### **ALGEBRA**

CO1: Symmetric, Skew symmetric, Hermitian and skew Hermitian matrices. Elementary Operations on matrices. Cayley Hamilton theorem and its use in finding the inverse of a matrix.

CO2: Applications of matrices to a system of linear (both homogeneous and non-homogeneous) equations.

CO3: Relations between the roots and coefficients of general polynomial equation in one variable. Transformation of equations.

CO4: Nature of the roots of an equation Descarte's rule of signs. Solutions of cubic equations (Cardon's method). Biquadratic equations and their solutions.

#### **CALCULUS**

CO5: Definition of the limit of a function. Basic properties of limits, Continuous functions and classification of discontinuities. Maclaurin and Taylor series expansions.

CO6: Asymptotes in Cartesian coordinates, intersection of curve and its asymptotes, asymptotes in polar coordinates. Curvature, radius of curvature for Cartesian curves, parametric curves, polar curves.

CO7: Tracing of curves in Cartesian, parametric and polar co-ordinates. Reduction formulae, Rectification, intrinsic equations of curve.

CO8: Quadrature (area)Sectorial area. Area bounded by closed curves. Volumes and surfaces of solids of revolution.

#### **SOLID GEOMETRY**

CO9: General equation of second degree. Tracing of conics. Tangent at any point to the conic, chord of contact, pole of line to the conic, director circle of conic.

CO10: Sphere: Plane section of a sphere. Sphere through a given circle. Intersection of two spheres, radical plane of two spheres. Co-oxal system of spheres

CO11: Central Conicoids: Equation of tangent plane. Director sphere. Normal to the conicoids, Polar plane of a point. Enveloping cone of a coinoid. Enveloping cylinder of a coinoid.

CO12: Paraboloids: Circular section, Plane sections of conicoids, Generating lines. Confocal conicoid. Reduction of second degree equations.

#### **NUMBER THEORY AND TRIGNOMETRY**

CO13: Divisibility, G.C.D.(greatest common divisors), L.C.M.(least common multiple) Primes, Complete residue system and reduced residue system modulo  $m$ . Euler function, Euler's generalization of Fermat's theorem. Chinese Remainder Theorem.

CO14: De Moivre's Theorem and its Applications. Expansion of trigonometrical functions, Direct circular and hyperbolic functions and their properties. Inverse circular and hyperbolic functions and their properties. Logarithm of a complex quantity.

#### **ORDINARY DIFFERENTIAL EQUATIONS**

CO15: Geometrical meaning of a differential equation. Exact differential equations, integrating factors. Orthogonal trajectories: in Cartesian coordinates and polar coordinates. Self orthogonal family of curves.

CO16: Linear differential equations of second order: Reduction to normal form. Solution of simultaneous differential equations involving operators  $x (d/dx)$  or  $t (d/dt)$  etc. Method of auxiliary equations.

### VECTOR CALCULUS

CO17: Scalar and vector product of three vectors, product of four vectors. Divergence and curl of vector point function, Cylindrical co-ordinates and Spherical coordinates. Vector integration; Line integral, Surface integral, Volume integral, Theorems of Gauss, Green & Stokes and problems based on these theorems.

### ADVANCED CALCULUS

CO18: Continuity, Sequential Continuity, properties of continuous functions, Uniform continuity, chain rule of differentiability. Taylor's theorem for functions of two variables. Lagrange's method of multipliers. Surfaces: Tangent planes, one parameter family of surfaces, Envelopes.

### PARTIAL DIFFERENTIAL EQUATIONS

CO19: Partial differential equations: Formation, order and degree, Equations reducible to linear equations with constant co-efficients. Solution of linear hyperbolic equations, Monge's method for partial differential equations of second order. Cauchy's problem for second order partial differential equations.

### STATICS

CO20: Composition and resolution of forces. Parallel forces. Moments and Couples. Analytical conditions of equilibrium of coplanar forces. Friction. Centre of Gravity. Virtual work. Forces in three dimensions. Poinsot's central axis, Wrenches.

### SEQUENCES and SERIES

CO21: Boundedness of the set of real numbers; least upper bound, greatest lower bound of a set, Neighborhoods. Infinite series: Convergence and divergence of Infinite Series, Infinite series: D-Alembert's ratio test, Raabe's test, Convergence and absolute convergence of infinite products.

### SPECIAL FUNCTIONS AND INTEGRAL TRANSFORMS

CO22: Series solution of differential equations – Power series method, Definitions of Beta and Gamma functions. Bessel equation and its solution: Bessel functions and their properties. Convergence, recurrence, Relations and generating functions, Orthogonality of Bessel functions.

### PROGRAMMING IN C & NUMERICAL METHODS

CO23: Programmer's model of a computer, Algorithms, Flow charts, Data types, Operators and expressions, Input / outputs functions. Decisions control structure: Decision statements, Logical and conditional statements, Implementation of Loops.

### REAL ANALYSIS

CO24: Riemann integral, Integrability of continuous and monotonic functions, The Fundamental theorem of integral calculus. Mean value theorems of integral calculus. Improper integrals and their convergence, Comparison tests, Abel's and Dirichlet's tests, Frullani's integral.

## GROUPS AND RINGS

CO25: Definition of a group with example and simple properties of groups, Subgroups and Subgroup criteria, Rings, Subrings, Polynomial rings over commutative rings, Unique factorization domain.

## NUMERICAL ANALYSIS

CO26: Finite Differences operators and their relations. Finding the missing terms and effect of error in a difference tabular values, Central Differences: Gauss forward and Gauss's backward interpolation formulae, Numerical Differentiation, Eigen Value Problems: Power method, Jacobi's method, Given's method, Householder's method, QR method, Lanczos method.

## REAL AND COMPLEX ANALYSIS

CO27: Jacobians, Beta and Gamma functions, Double and Triple integrals, Dirichlet's integrals, change of order of integration in double integrals. Fourier's series: Fourier expansion of piecewise monotonic functions, Properties of Fourier Co-efficients, Dirichlet's conditions.

## LINEAR ALGEBRA

CO28: Vector spaces, subspaces, Sum and Direct sum of subspaces, Linear span, Linearly Independent and dependent subsets of a vector space. Finitely generated vector space, Homomorphism and isomorphism of vector spaces, Linear transformations and linear forms on vector spaces, Vector space of all the linear transformations Dual Spaces,

## DYNAMICS

CO29: Velocity and acceleration along radial, transverse, tangential and normal directions. Relative velocity and acceleration. Simple harmonic motion. Elastic strings. Mass, Momentum and Force. Newton's laws of motion. Work, Power and Energy. Definitions of Conservative forces and Impulsive forces.

## **BCom**

### BUSINESS MATHEMATICS I

CO30: Logarithms, Anti-logarithms, Sequences and Series: Arithmetic & Geometric Progressions. Differentiation, Matrices and Determinants: concept of matrix, types, and algebra of matrices; properties of determinants; Compound Interest and Annuities.

### BUSINESS MATHEMATICS II

CO31: Permutations and Combinations, Binomial Theorem, Linear inequalities: graphical solution of linear equalities in two variables, solution of system of linear inequalities in two variables. Linear programming-formulation of equation, pie chart, pictographs, graphs of time series or line graphs; graphs of frequency distribution: histogram, frequency polygon, ogives or cumulative frequency curves, limitations of diagrams and graphs.

## **BCA**

### MATHEMATICAL FOUNDATIONS – I

CO32: Set, subsets and operations on sets, Venn diagram of sets. Power set of a set, Equivalence relation on a set and partition of a set, Permutation and combinations, Epsilon and delta definition of the continuity of a function of a single variable, Basic properties of limits, Continuous functions and classifications of discontinuities, Derivative of a function, Applications of differential equations to geometry.

#### MATHEMATICAL FOUNDATIONS – II

CO33: Propositions and logical operators, Truth tables and propositions generated by a set, Equivalence and implications, Laws of logic, Characteristic equations of a square matrix, Cayley-Hamilton Theorem.

#### MATHEMATICAL FOUNDATIONS – III

CO34: Derivative of functions of defined parametrically, Derivative of Logarithmic exponential, trigonometric, inverse trigonometric and hyperbola functions, Tangents and Normals: Length of tangent, subtangent, normal and subnormal, Polar subtangent, polar subnormal, pedal equations, Taylor's theorem and Maclaurin's theorem, Asymptotes, Curvature.

#### MATHEMATICAL FOUNDATIONS – IV

CO35: Partial derivatives of first and second order. Euler's theorem on homogeneous functions, differentiation of composite and implicit functions, Reduction formula, rectification of curve represented in Cartesian, Quadrature, Beta and Gamma functions, their properties and relationships. Differentiation under integral sign.

#### **PRACTICALS:**

CO36: Implementation of numerical methods, studied in the theory paper, in 'C' Programming language.

#### **Credits:**

- (i) Four periods each of 40 minute per week in each semester of BA/BSc.
- (ii) Six periods each of 40 minute per week in first and second semester of BCom.
- (iii) Six periods each of 40 minute per week in first to fourth semesters of BCA.
- (iv) Practical of two hour per student per week in fourth and fifth semester of BA/BSc.