



**Kasegaon Education Society's,**  
**ARTS AND COMMERCE COLLEGE, KASEGAON**  
**Tal.- Walawa, Dist.- Sangli**  
**Maharashtra, India**



## **Program Outcomes (PO) and Course Outcomes (CO) 2023-2024**

### **Faculty of Arts**

#### **Department of Marathi**

##### **Program Outcomes: Marathi All Classes**

- To increase interest about Marathi literature
- Creating awareness of life through literature study
- Develop linguistic ability to deal with various areas and globalization
- Explain the importance of language in the development of personality
- To increase art philosophy and critical perspective
- To inculcate the values like humanism, faith about the environment, dedication to universal responsibility, values and principles of integrity values
- Creating a great writer by encouraging thinking ability
- To enable the students to attend the competitive examinations
- Reflect on-one's cultural identities and values
- Promote active citizenship and community engagement
- Increase ability of research

##### **Program Specific Outcomes: Marathi All Class**

- Community Engagement and Global Understanding
- Critical and creative Thinking
- Literacy and communication
- Evaluate and conduct Research
- Depth and Breadth of Understanding
- Professional Development and Ethical behavior

## Course Outcomes:

### **B. A. I Marathi Paper I -Vidyashakhiy Vishesh Sabha – Aksharbandh**

- To acquaint the student traditions, writers, poets in Marathi literature
- To enable the students to attend the competitive examinations
- To write about pictures and other medium and use it practically.
- To make aware the students of mother tongue, National integrity and human values
- To acquaint the students about the dimensions of poems and younger poets.
- To acquaint the students writing for various medias and newspapers.

### **B.A. I (Paper I) (Optional) (Aksharbandh) (71216)**

- To understand the relationship between culture and literature.
- To understand the difference among practical, artistic and scientific language.
- To understand the importance of humour in life.
- To understand the influence of globalization on common life.
- To Make aware of the forms of literature.(Poetry)
- To prepare for writing for media and competitive examinations.
- To give information about filmmaking process and appreciation of drama and films.

### **B.A.II (Paper III) (Special) Sabhasad Bakhar and Anuvad Prakriya:**

#### **B.A.II (Paper V) (Special) Vanikide and Anuvad Prakriya:**

- Acquaint the students medical language and literature
- Understand the translation method
- Understand the story form of literature

### **B.A.II (Paper IV) (Special) (DSC – C2) (Kavyagandh ) (Poetry)**

#### **B.A.II (Paper VI) (Special) (SCC- C26) ( Jugad ) (Novel)**

- Acquaint the students the various subjects related to farmers, labours, social problems, lovers,deprived,Mahanagariy.
- To develop skill of poetry writing on specific incident and experience.
- To understand the features of the Streams Of Marathi Poetry.
- Understand the novel form of literature.
- Exploring new spaces in contemporary fiction.
- Understanding the contradictions in modernity.
- Inculcate the importance of human values.
- Develop skill of report writing.

### **B.A.III (Paper VII) ( Kavyashastra )**

#### **B.A.III (Paper XII) ( Kavyashastra )**

- To introduce the students ancient Poetics.
- To inform about Literary Theory.
- To introduce Kavya Swaroop,Prayojan,Kavyanand and Shabdshakti.
- To understand the Figures of Speech and Prosody.
- To demonstrate Knowledge of Literature with all its conceptual terminologies.

### **B.A.III (Paper VIII) (Linguistics and Marathi Language)**

#### **B.A.III (Paper XIII) (Linguistics and Marathi Language)**

- To study the characteristics of Language and comprehend the function of it.
- To understand the source of Marathi Language, Alphabets, Parts of Speech etc.
- To understand the sounds of Marathi Language and the process of the change in Semantics.

### **B.A.III (Paper X) Marathi Bhasha Upyojan and Sarjan and B.A.III (Paper XV)**

#### **Marathi Bhasha Upyojan and Sarjan:**

- Develop writing linguistics skills for media
- Identify and use key concept and theories in literary criticism to interpret literary text in Marathi
- Analyze structure of language at different levels
- Display the skill and abilities for media and publication
- Develop editing skill
- Understand administrative skills

#### **Learning Sources of Marathi Literature: Dalit and Gramin Literature**

- To do critical study of Gramin Literature
- To comprehend the form of Dalit and Gramin
- To evaluate critically the Marathi novels and guides to the students

### **B.A.III (Paper IX) ( History of Marathi Literature)**

#### **B.A.III (Paper XIV) (History of Marathi Literature)**

- To study the Streams of Marathi Language in the Middle Age.
- To understand the features of Marathi Saint Literature.
- To comprehend the Specialty Predilection of Panditi, Sahiri and Bakhar Literature.
- To acquaint Literary Traditions and History of Marathi in the Middle Age.
- Introducing the inspiration for literary creation of the Middle Age.

### **B.A.III ( Paper X ) Marathi Bhasha Upyojan And Sarjan**

#### **B.A.III ( Paper XV ) Marathi Bhasha Upyijan And Sarjan**

- To develop writing linguistics skills for media.
- To identify and use key concepts and theories in literary criticism to interpret literary text in Marathi.
- To analyze structure of language at different levels.
- To display the skills and abilities for media and publication.
- To develop editing skill.
- To understand administrative skills.
- To develop skills of Writing, Reading, Speaking, Grasping and Observation.
- To increase Vocabulary.
- To understand importance and techniques of Public Relation skills.

### **B.A.III (Paper XI) Learning Sources of Marathi Literature : Dalit and Gramin Literature**

- To do critical study of Gramin Literature.
- To comprehend the form of Dalit and Gramin.
- To evaluate critically the Marathi novels and guides to the students.

#### **History of Marathi Literature:**

- To Study the Streams of Marathi Literature in the Middle Age
- To understand the features of Marathi Saint Literature
- To Comprehend the Specialty Predilection of Panditi, Sahiri and Bakhar Literature

## Department of English

### Program Outcomes for B.A.

- PO 1. The students acquire knowledge in the field of social sciences, literature and humanities which make them sensitive and sensible enough.
- PO 2. The B.A. graduates will be acquainted with the social, economic, historical, geographical, political, ideological and philosophical tradition and thinking.
- PO 3. The program also empowers the graduates to appear for various competitive examinations or choose the post graduate program of their choice.
- PO 4. The B. A. program enables the students to acquire the knowledge with human values framing the base to deal with various problems in life with courage and humanity.
- PO 5. The students will be ignited enough to think and act over for the solution of various issues prevailed in the human life to make this world better than ever.
- PO 6. Program provides the base to be the responsible citizen

### ENGLISH PSO for B.A.:

- PSO1: Comprehend various forms of literature like prose, poetry, drama and fiction
- PSO2: Apprehend different cultures and cultural sensibilities around the world
- PSO3: Perspectives of literary movements that existed in different ages.
- PSO4: Develop the knowledge of grammatical system of English language.
- PSO5: Define literary theory and terms in criticism.
- PSO6: Develop four language skills LSRW.
- PSO7: Write analytically in different formats like essays, reviews, research papers etc.
- PSO8: Scope of employability and entrepreneurship in the field of Media and Journalism, Teaching, Public Relations, Human Resource, Civil Service, Creative Writing etc.

### B. A. I: Modern Indian Writing in English Translation (Opt. Paper) (Semester I and II)

#### Program Outcomes:

- It will encourage the students to read and enjoy the literature in the form of short-story and novel and poetry in a lucid, clear and easy but dignified language. The students will identify elements of play, story and poetry.
- Students will identify, analyze, interpret and describe the critical ideas, values and themes that appear in literary texts and to understand the ways these ideas, values and themes information and impact on culture and society both in the past and the present. Students will be able to articulate awareness of the relationships between their individual works and the tradition.

#### Program Specific Outcomes:

- Students will be introduced to a range of modern Indian short stories in translation, plays and poetry. This program aims to broaden students understanding.
- They will become able to learn the fundamentals of narrative composition and have the satisfaction of completing something to a high standard in the contemporary period.
- It will create awareness amongst students about the past.

- It will create imaginative and critical insight into all areas of human: experiences-war and peace, nature and culture, love and sexuality, self-hood and social identity, justice and atrocity, the sacred and profane, the burdens of history and the dreams of future.
- They can cultivate an imaginative openness to other's experience.

**Course Outcomes:**

- To acquaint the students with Modern Indian Literature in English Translations.
- To introduce the students to short story as a form of literature with reference to the text prescribed.
- To develop literary competence among students
- To introduce the students to poetry and play as a form of literature with reference to the text prescribed

**B.A.II**

**Course Outcomes:**

After the completion of the course, the students will be able to:

- CO1 Communicate in English, in oral and written modes, in their day-to-day lives as well as at workplace.
- CO2 Face job interviews confidently and effectively
- CO3 Acquire soft skills required at workplace and in real life.
- CO4 Learn group behaviour and team work.
- CO5 Learn to value and respect others' views and develop democratic attitude.
- CO6 Face competitive examinations confidently and effectively with adequate linguistic competence.
- CO7 Acquire professional skills required in media writing.
- CO8 Learn to appreciate and enjoy reading poetry and prose passages; acquire human values and develop cultured outlook.

**B.A.II Literature and Cinema**

On successful completion of the course students will be able to:

- CO1. Identify the structures and techniques used in various forms of literature and film
- CO2. Explain terminology used in the analysis of literature and film, and ways it can be used
- CO3. Identify and describe a variety of critical approaches that may be employed in the study of literature and film
- CO4. Develop independent responses to a variety of imaginative texts
- CO5. Demonstrate the ability to work collaboratively in small groups
- CO6. Select and employ the skills necessary to think critically and respond appropriately in both written and oral forms to a variety of fictional texts
- CO7. Write an academic essay at a level suitable for successful study at the introductory undergraduate level

## **B.A. II**

### **Partition Literature**

CO1 Remembering Partition: 'two faces of independence'— 'celebration and consternation'; 'joy and sorrow'; memory and partition archive.

CO2 The State/Host and the refugees: conflict; conciliation; self-reliance

CO3 The Refugees and the 'other': community and caste perspective

CO4 The Margins (from the perspective of historiography): gender; caste; community; region

## **B.A. II Compulsory English**

### **Program Outcomes:**

- Developing intellectual, personal and professional abilities through effective communicative skills; ensuring high standard of behavioral attitude through literary subjects and shaping the students socially responsible citizens.

### **Program Specific Outcomes:**

- On successful completion of the Program, the students will be accurate both in oral and written communication as they will be strong in Grammar and its usage.
- They will be familiar with the conventions of diverse textual genres including fiction, non-fiction, poetry, autobiography, biography, Journal, film, plays, editorials etc.

### **Course Outcomes:**

- Able to write reasonably correct English.
- Enrich Vocabulary and its use.
- Able to speak English Correctly
- Develop literary appreciation competence.
- Overcome the drawbacks in Use of English Grammar
- Know about the difference between the language of prose and poetry.
- Develop Rapid reading skills.

## **B.A.III**

### **Course Outcomes: After the completion of the course, the students will be able to-**

CO1 Communicate in English, in oral and written modes, in their day-to-day lives as well as at workplace.

CO2 Face job interviews confidently and effectively

CO3 Acquire soft skills required at workplace and in real life.

CO4 Learn group behaviour and team work.

CO5 Learn to value and respect others' views and develop democratic attitude.

CO6 Face competitive examinations confidently and effectively with adequate linguistic competence.

CO7 Acquire professional skills required in media writing.

CO8 Learn to appreciate and enjoy reading poetry and prose passages; acquire human values and develop cultured outlook.

## **B.A. III Compulsory English**

### **Program Outcomes:**

- The language skills and communicate skill being developed students can seek job opportunities in media, industry, BPO, Teaching field, Banks, government sector through various competitive exams, management, PG courses in social services, law private sector, translator, creative writer so on and so forth.
- English being an international language, proficiency in English gives higher level confidence, smartness and better opportunities. As English is taught in schools and colleges as compulsory subject, much scope is in teaching field.
- There are varieties of English all over the world which accounts for its large scope for research. Further explorations in literature and language are another challenging area for students to pursue.
- Students emerge as competent, confident, employable human resource suitable for different jobs.
- Students exhibit ability to read write and speak in English correctly and fluently.
- Students reflect an insight into life, culture, morality, human psyche and awareness of all current issues.
- Students can connect themselves with the media, technology, ideas, people, locality and world and can make sense out of it.
  
- Students exhibit democratic spirit, scientific temperament, concern for social justice and equity and good citizenship.
- Students show great concern for environmental issue and act voluntarily for its conservation.
- Students exhibit rational and analytical thinking before coming to conclusion or decision making.
- 

### **Program Specific Outcomes:**

- English is a world language and a language in corporate world .The program enabled the students to listen, to speak, to read and to write. They learnt to avoid common errors in English and to improve the skills of spoken and written English.
- Students learnt the skill of facing interviews which is the final hurdle which they had to cross to get the job. They tried to improve their intelligence, behavior ready wit, presence of mind.
- Students developed the skill of using English for journalism. It is helpful for number of media such as newspapers, television, radio, periodicals and even internet in the world of media.
- Group discussion is a challenges and cooperative skill. It judges a candidates worthiness and appropriateness for the job. This technique made the students bold, impressive and studious. It developed students all round personality. It opened a variety of door of employment i.e. Jobs in cooperate companies, tourist guide, teaching professions, etc.  
Reading comprehension inculcated values as humanity, love futility of war and mutual hatred.

### **Course Outcomes:**

- Able to write reasonably correct English.
- Enrich Vocabulary and its use.
- Able to speak English Correctly
- Develop literary appreciation competence.
- Overcome the drawbacks in Use of English Grammar
- Develop skill of written composition – understand and use inter sentence relationship in a passage and know to structure and restructure passages.
- Prepare students to acquire complex skills like participating in a group discussion, facing Interview board

- Prepare for competitive examinations.
- Besides these units enriched their vocabulary. These units helped the students to be good citizens of India patriotism.

### **Understanding Poetry (Special English): (Semester V, Paper VIII) and (Semester VI, Paper XIII)**

#### **Program Outcomes:**

- To learn the poetry as a major part of literature
- To acquaint the students with Elizabeth, Metaphysical, New-Classical, Romantic, 20th Century Poetry and Modern Indian Poetry
- To explain the inner and outer world through the study of poetry
- To acquaint the students about Indian English poets especially pre-Independence and post-independence poets and their poetry
- Provide them information of how the British Poets influenced Indian English Poets in the previous period i.e. pre-independence poetry.

#### **Program Specific Outcomes:**

- To make them For Higher Education like M.A. ,B. Ed., M.B.A., L.L.B. and any other course.
- They will become humane. They will be able to recognize poetry from a variety of culture, language and historic periods.
- They can analyze the various elements of Poets, such as diction, tone from, genre, imagery, figure of speech, symbolism, theme etc.
- They will get various outcomes of poetry i.e. free verse, Sonnet, ballad, epics, song, lyric, satire knowing that poetry is more than just words on paper it transcends words.

#### **Course Outcomes:**

- Students will be able to show appreciation for a poem.
- They can understand the concept like thyme meter, figure of speech, assonance, metaphor, imagery etc. They can compare English Poem with Indian Poetry.

### **B.A. III (Special English): Understanding Drama**

#### **Program Outcomes:**

- To encourage students to make a detailed study of a few sample masterpieces of English Drama from different parts of the world.
- To develop interest among the students to appreciate and analyze drama independently

#### **Program Specific Outcomes:**

- To introduce students to major movements related to drama, works and dramatists through study of selected texts.
- To create literary sensibility for appreciation in students and expthem to artistic and innovative use of language by writers and various worldviews

#### **Course Outcomes:**

- Demonstrate the skills needed to participate in a conversation that builds knowledge collaboratively
- Develop a passion for literature and language
- Analyze the importance of literature and art as they relate it to their socio-cultural context and to their –universall appeal
- Communicate and interact short dialogues with each other.
- Read, understand and interpret drama as a genre of literature.
- Acquire skill of dramatization



### **B.A Part III (Special English) Literary Criticism and Critical Appreciation Program Outcomes:**

- To introduce the learners to the major trends in literary criticism.
- To familiarize them with the major critical concept.
- To make them study the original contributions to literary criticism.
- To acquaint them with various literary movements.
- To train them to write critical appreciation of poetry.

#### **Program Specific Outcomes:**

- For the students pursuing P.G, competitive exams the introduction of major trends in literary criticism proved useful and fruitful.
- The students got familiarized with the major critical concept, which is the concrete base of criticism for further studies. Besides, these concepts are useful for general knowledge of criticism for the study of competition exams.
- The students got acquainted with various literary movement .They get trained to write critical appreciation of the poetry which helped the students for creative writing to work criticism on creative writing etc. Aesthetic knowledge of creative writing certainly helped the students to make life beautiful. The students aspiring to be teacher will avail of the knowledge of the various literary movements and the original contributions to literary criticism.

#### **Course Outcomes:**

- To make them familiar with the significant critical approaches and terms.
- To encourage students to interpret literary works and to develop aptitude for critical analysis.

### **B.A. III**

#### **Understanding Novel (Special English) - (Semester V Paper X) and (Semester VI Paper XV):**

Upon completion of the course the students will be able to:

#### **Program Outcomes:**

- They will familiarize with the term of novel in various regions.
- They will be inspired after reading of grandeur historical personalities various regions.
- They will be able to recognize social, historical and ethics influences.

#### **Program Specific Outcomes:**

- To promote them for higher education in the subjects like English Literature through Novel as a part of literature
- Knowledge gives a way to students that they can follow the ethics in literature in their personal life.
- They can crack the various civil exams with the knowledge of specific subject as a main subject.
- They can be inspired to write something creative in their life.
- Students can understand the complexities, problems and solution in their life.
- To introduce the students the concept of literature.
- To familiarize them the major streams of literature.
- To acquaint the students with major trends in novels as a major part of literary world.
- To give the knowledge about the prominent contributors of Novel.
- How the novel is mirror of human life: Discussion

**Course Outcomes:**

- CO1 Conceptualize the Genre of Novel and its types viz. Allegorical, Gothic, Historical, Epistolary, Picaresque, and Psychological.
- CO2 Gain knowledge in the development of English Fiction from the 17th Century to the 21st century – from man's physical adventures to social and psychological journeys.
- CO3 Learn the elements of fiction – Narrative Technique, Setting, Point of view, Style and Detective fiction.
- CO4 Become well acquainted with the literary genre of Novel and Short Story and literary devices of allegory and metaphor, satire, and stream of consciousness technique.
- CO5 Enhance Reading skills and understand how to represent their experience and ideas critically, creatively, and persuasively through the medium of language.
- CO6 Understand the social, historical and political backgrounds of the world of the novelists and short story writers through the elaborate and allegorical descriptions in the prescribed novels.
- CO7 Get a wide exposure of eminent writers like George Orwell, Jane Austen and Daniel Defoe, and Rudyard Kipling. Their unique styles of writing and imagination help to enhance their creative writing skills.

**B.A. III (Special English): The Structure and Function of Modern English Program Outcomes:**

- The language skills and communicate skill being developed students can seek job opportunities in media, industry, BPO, Teaching field, Banks, government sector through various competitive exams, management, PG courses in social services, law private sector, translator, creative writer so on and so forth.
- English being an international language, proficiency in English gives higher level confidence, smartness and better opportunities. As English is taught in schools and colleges as compulsory subject, much scope is in teaching field.
- There are varieties of English all over the world which accounts for its large scope for research.
- Further explorations in literature and language are another challenging area for students to pursue. Students emerge as competent, confident, employable human resource suitable for different jobs.
- Students exhibit ability to read write and speak in English correctly and fluently.
- Students reflect an insight into life, culture, morality, human psyche and awareness of all current issues.
- Students can connect themselves with the media, technology, ideas, people, locality and world and can make sense out of it.
- Students exhibit democratic spirit, scientific temperament, concern for social justice and equity and good citizenship.

**Program Specific Outcomes:**

- Develop their linguistic ability.
- Discuss the process of discourse analysis.
- Students show great concern for environmental issue and act voluntarily for its conservation.
- Students exhibit rational and analytical thinking before coming to conclusion or decision making.

**Course Outcomes:**

- Understand the Speech mechanism and its process.
- Know about the basic sounds in English language
- Learn Word transcription and word stress
- Explore word–formation processes; word classes
- Identify types of phrases and show their form and function.

## DEPARTMENT OF HISTORY

### Program Outcomes:

1. To understand the basic historical concept, historical theme, historical chronology and the scope of India and world history.
2. To acquaint with the range of issues related Indian History and its distinctive eras .
3. Understand the history of the countries other than India with comparative approach.
4. Think and argue historically and critically in writing and discussion.
5. To prepare for different types of competitive examinations.
6. Critically recognize the social, political, economic and cultural aspects related to history.
7. Identify how the Indian culture had been contributed to the world human civilization through the Ages.
8. Understand values of unity in diversity, multiculturalism, multi-religiosity, secularism and humanism which are inherited in Indian Culture and upheld by our Constitution.
9. To study further in the applied field of history as archaeology.

### B.A.-I Semester- I

#### Paper -1 Rise of Maratha Power -1600-1707

#### **Program Outcomes:**

1. Understand the inspiration behind the establishment of Swarajya
2. Explain the reasons behind Chhatrapati Shivaji early conflicts with the regional lords
3. Know about the administrative need and the importance of grand coronation of Chh. Shivaji Maharaj
4. To understand the expedition of Chhatrapati Shivaji's on Karnataka region
5. Know about the sacrifices of Maratha leaders and people to protect freedom and sovereignty of the region.
6. Understand the formation of welfare state during the 17<sup>th</sup> century Maharashtra

#### **Program Specific Outcomes:**

- Students understand the basic skills that historians use in writing.
- Students learn basic tools of history
- Students Developed skill of distinguishing primary and secondary Sources.
- Students develop the habit of Critical thinking
- Students learn major events and personalities and turning points of the history of the united states, Europe and Other Countries.

#### **Course Outcomes:**

- Student Comprehend Knowledge of the history of Shivaji
- Students understand the development of the Personality of Shivaji
- To acquaint with knowledge of various movement led by Shivaji
- Students learn the importance of the coronation of Shivaji
- To acquaint with knowledge of the history of Sambhaji Maharaj
- To acquaint with knowledge of the Knowledge of the personality of Rajaram Maharaj
- Students learn the importance of the various sources for understanding Maratha History
- Students get acquainted with political, economic, social and religious condition during the Maratha Power.

## B.A. – II

Sem - III CBCS Pattern

- **Paper – 3 HISTORY OF MODERN MAHARASHTRA -1900 to 1960**

**P. O.:**

1. Understand the beginnings and growth of nationalist consciousness in Maharashtra.
2. Explain the contribution of Maharashtra to the national movement.
3. Give an account of various movements of the peasants, workers, women and backward classes.
4. Know the background and events which led to the formation of separate state of Maharashtra.

- **PAPER – 4 HISTORY OF INDIA - 1757-1857**

**P. O.:**

1. Acquaint himself with significant events leading to establishment of the rule of East India Company
2. Know the colonial policy adopted by the company to consolidate its rule in India
3. Understand the structural changes initiated by colonial rule in Indian economy.
4. Explain the various revolts against rule of the East India Company.

## Sem- IV

- **PAPER- 5 HISTORY OF MODERN MAHARASHTRA - 1960-2000**

**Program Outcomes:**

1. Acquaint himself with the contribution of eminent leaders of Maharashtra
2. Know about the economic transformation of Maharashtra
3. Understand the salient features of changes in society
4. Explain the growth of education

- **PAPER - 6 History of Freedom Struggle - 1858-1947**

**Program Outcomes:**

1. Understand the events which lead to the growth of nationalism in India
2. Acquaint himself with major events of the freedom struggle under the leadership of Mahatma Gandhi
3. Explain the contribution of Revolutionaries, Left Movement and Indian National Army
4. Know the concept of Communalism and the causes and effects of the partition.

### **B.A.III**

#### **Program Outcomes:**

- To understand the history of medieval period of India through various sources
- To learn about the causes and aftermaths of the American Revolution, French Revolution and Russian Revolution
- To understand the History of modern period of India through social-reformation scenario, social reformation and various phases of national movement
- To describe the historical process which leads to rise of nationalism in Europe

#### **Program Specific Outcomes:**

- To understand, National, Regional, International history for developing historical sense
- To understand Indian culture in reality
- To develop the feeling of patriotism and Nationalism
- To prepare themselves for competitive carriers in fields like civil services and teaching
- To analyze the various sources of history

#### **Course Outcomes:**

- To promote the studies in Maratha History
- To acquaint the students with Chatrapati Shivaji's Political and Economic policy
- To convince the importance of local History
- To acquaint the students with political, economic, social and religious circumstance of the age of Chatrapati Shivaji
- To make student familiar with Glorious Revolution of France and England respectively.
- To acquaint students with American Revolution
- To acquaint the students with the socio- economic and political development in England, America and France in 19<sup>th</sup> Century
- To perceive various sources to study Ancient India.

## Political Science

### PROGRAMME OUTCOME:

- The expected outcome of the course is to equip students with the concepts, principles, theories and processes studied in Political Science, so as to facilitate their career choices and employment. The course is aimed at shaping the students' perception and outlook on social, economic and political environment of India and beyond. The course also seeks to develop the analytical abilities, observational skills and decision making faculties of the students so that they will be able to face different challenges of life.

### Program Specific Outcomes:

- To give knowledge about ancient Political thoughts
- To give the information about power and functions of Local Self Government and civil government.
- To study Socio-Political Movements.
- To make aware the students about Indian Administrative system, civil Services, Lokpal and lokayukta etc.

### Course Outcomes:

	Course Name	Course Outcomes
B.A I	DSC (B4) Paper-I --Introduction to Political Science	CO 1 : Understanding the meaning and importance of Political Science. CO 2 :Understanding the sub-disciplines of Political Science. CO 3:Explaining Democracy and State. CO 4 : Understanding key concepts of political science.
	<b>DSC (B18) Paper-II --Indian Constitution</b>	CO 1 :Understanding the making of Indian constitution. CO 2: Understanding the philosophy of Indian constitution. CO 3 : Understanding critically analysing legislature, executive system of India CO 4 : Understanding critically analyzing judiciary system of India
B.A II	DSC (D7) Paper-III Political Process in India	CO 1 : Understanding Nature & Characteristics of Indian Federalism and changing nature CO 2 : Examining the Institutions of Electoral Process in India CO 3 : Discussing the Party System of India. CO 4 : Analyzing the Issues in Indian Politics.
	DSC (D8) Paper-IV Indian Political Thought Part -I	CO 1 Analyzing the selected thought of Kautilya. CO 2 Analyzing the selected thought of Mahatma Phule. CO 3 Analyzing the selected thought of Justice M. G.Ranade. CO 4 Analyzing the selected thought of B.G. Tilak.
	DSC (D35) Paper-V Local Self Government in Maharashtra	CO 1: Understanding historical background of local self-government CO 2 : Examining the Institutions of Rural self-government. CO 3: Examining the Institutions of Urban local self-government. CO 4 : Discussing the constitutional amendments and challenges before local self-government.
	DSC (D36) Paper-VI Indian Political Thought Part -II	CO 1 : Analyzing the selected thought of M. K. Gandhi. CO 2 : Analyzing the selected thought of Jawaharlal Nehru. CO 3 ;Analyzing the selected thought of Justice Dr. B .R. Ambedkar. CO 4 : Analyzing the selected thought of M.N. Roy.
	CGE Paper-I Public Administration	CO 1 Explaining the nature, scope of Public Administration CO 2 : Explaining the Principles of Organization. CO 3 : Discussing the Public Corporations. CO 3 : Explaining the Changing Perspectives in Public Administration.
	CGE Paper-II Public Administration	CO 1 : Discussing the personnel administration. CO 2 : Discussing Financial Administration, budgetary process in India and parliamentary financial committees. CO 3 : Discussing Delegated Legislation CO 4 : Understanding the concept of good governance, discussing right to information

# ECONOMICS

## **B.Com. I Paper I and II-Business Economics**

### **Program Outcomes:**

- They become micro model of market demand and supply to predict changes in price and output that result from exogenous changes.
- The module aims to provide a firm understanding of the principles of micro economic analysis
- To introduce students to the key micro economics issues facing developing economics.
- The get Ph. D. Program in economics provides students with training in modern micro economics, macro-economics and econometrics combined with specialization.

### **Program Specific Outcomes:**

- The will study of individuals, household and firms behavior in decision making and allocation of resources.
- Micro economics is the study of how individuals and firms make themselves as well.
- The goal is to show they the way economists thing and how to use this analytical.
- This course will cover the most basic academic topics of macro-economics.

### **Course Outcomes:**

#### **B. Com. I Paper I and II-Business Economics:**

- To train them to write figure of various concept in Micro Economics.
- To know the student basic concept in Micro Economics.
- Develop skill of written economics concept and figure in Micro Economics.
- To help students to understand the concept of Rent, Profit, wages and Interest.

## **B. A. I Paper I, II-Indian Economics**

### **Program Outcomes:**

- To provide recent years especially after the far reaching banking sector reforms in India and elsewhere.
- To discuss the impact of two decades of economic reforms in India.
- To understand the various aspects of Indian economy.
- To develop a perspective on the different problems and approaches to economic planning and development.
- To relate the growth and development of the Indian economic theory in the context of India.

### **Program Specific Outcomes:**

- They able to understand role of agriculture in Indian economy.
- They will skills within various disciplines of commerce, business accounting, economics finance, auditing.
- They will measure of the economic cost using scarce resources to produced one particular good or service in terms.
- They plan for national economic development with the establishment of the planning.



**Course Outcomes:**

- To know the problem of Indian Agriculture.
- To help student to understand the problems of Population.
- To acquaint the student with the concept of service sector and Industrial Sector.
- To know the student export trade and Import Trade.
- To understand the Indian Population strategy for Indian Population.

**Business Environment Paper I and II:****Program Outcomes:**

- To know the student various International concept like IMF, WTO, UNO and IBRD.
- To helps student to understand the role of agriculture in India.
- To helps the student to understand privatization, Globalization, Liberalization.
- To know the student the problem of population, Poverty, Unemployment etc.

**Course Outcomes: Economics**

- To impart basic concept of meaning and Definition of Micro Economics.
- To familiarize the student with the basic concept of functions of Money.
- To impart basic economics knowledge to the student.
- To provide exposure to the students about Tax and Public Finance framework of India.
- To help student to understand the population concept.
- To help student to understand the role of Agriculture in India.
- To impart Meaning of Micro Economics and various concept of Micro Economics.
- To provide the student working knowledge of Business Environment.
- To know the student various International concept like IMF, WTO, UNO and IBRD.
- To enable the student to know Indian economy and Business Economic

**Money and Financial Institution Paper IV and VI****Program Outcomes:**

- It provides Economic principles that underline the process of Banks and other financial institutes.
- They can analysis personal & corporate financial terms & concepts and role of financial markets and institutions.
- They will understand the concept of the time value of money and to use it.
- They will investigate the changing role of financial institutions, financial Markets and Monetary policy in modern economy.

**Program Specific Outcomes:**

- They will understand concept of the time value of Money.
- They will get the knowledge of personal loans, Money transfer, debit cards and specific investment, Consumer savings, Business deposits, Govt. deposits.
- They will become expert in monetary financial institutions, Investment, Funds, financial Vehicle Corporations, payment statistics etc.

### **B.Com. III Business Environment Paper I, II:**

#### **Program Outcomes:**

- To keep in mind that external factors and internal factors can influence each other and work together to affect a business.
- To understand the environment with in which the business has to operate is very important for running a business unit successfully at any place.
- To giving you the Knowledge you need to succeed in the business environment each of our Program has developed a set of learning.
- To successful completion of the business fundamentals programs.

#### **Program Specific Outcomes:**

- They success in the business environment each of our programs has developed a set of learning.
- They get part of maintaining our accredited school as part of maintaining our accreditations.
- They develop and attitude for working effectively and efficiently in a business environment.
- Program assists students in developing communication interpersonal, leadership and team work skills essential in today's business environment.

### **B.A. II Paper III to V- Macro Economics, B.Com. II Paper II Paper III: Business Economics**

#### **Program Outcomes:**

- They will get master degree in the fields of economics.
- They can work in the private sector as a consultant.
- To prepare the next generation of leaders in economic policy.
- To support by the Department of Economics is now one of the very best European programs

#### **Program Specific Outcomes:**

- To apply economic reasoning to the analysis of the selected economics problems and outcomes of government stabilization policies designed to correct macro economics
- To help student learning outcomes: mission statement through the teaching of microeconomics, macro-economics and econometrics, the under graduate economic able to understand of national income.
- To learn how markets and other governance structures organize core economics.

### **B.A., B.Com. (Economics):**

#### **B.A.II Paper IV, VI-Money and Financial Institution:**

- To acquaint the student with the various provisions of the Banks and Financial Institution.
- To familiarize the student various concept of Banks and Financial Institution.
- To know the student functions of RBI, Commercial Banks, Nationalized Banks, Regional rural Banks etc.

#### **B.A II Paper III and V and B.Com II Paper III, IV- Macro Economics: Business Economics**

- To know the student meaning and Definitions of Macro Economics.
- To familiarize the student with the basic concept of Macro Economics.
- To know the student about Public Finance, Public debt, Public expenditure and Tax.
- To make them study the International Trade.

## **BA-I Sem-I**

### **Science Technology and Development (CGE-1B)**

#### **Program Outcomes:**

1. Understand the definitions, nature, scope concepts in Scientific Thinking
2. To understand the Contribution of Eminent Scientist in the Development of Science and Technology
3. Know about the non-conventional power resources of India
4. To understand the science, technology and human health

## **BA-I Sem-II**

### **Science Technology and Development (CGE-2B)**

#### **Program Outcomes:**

1. To understand the Disaster Management in India
2. To Means of Communication and Information Technology in India and World
3. Know about the Science Technology in Space Research
4. Explain the Science Technology in India's Defense and Ocean Research

## Faculty of Commerce

### Program Outcomes (PO), Program Specific Outcomes (PSO) and Course Outcomes (CO)

#### Program Outcomes:

- Students are able to understand modern management practices and its applicability.
- Knowledgeable about latest laws governing business and commercial transactions.
- Students are able to understand practical Banking operations.
- Students are able to develop ability in computation of Income from salary, house property, and business and profession of individuals and firms as per provisions of Income Tax.
- Students are exposed to Advanced Accounting issues and practices.
- Students are equipped with the knowledge and competence in the field of business and commerce.
- Students become aware of changing micro and macro-economic policies and its impact on economy.
- Students are able to apply basic statistical skills necessary for analysis of a range of problems in accounting, marketing, economics and management.
- B.Com. degree embeds intellectual practice and transferable skills and offers a different entry levels to start a student's journey in accounting and finance.
- Students are able to develop organization and management skills, and entrepreneurial spirit.
- Students are able to know emerging opportunities in employment, and self-employment.

#### Program Specific Outcomes:

- Develop entrepreneurial qualities & skills & awareness about self-employment.
- Conceptual knowledge of preparing project Report.
- Understand commercial activities covered by advanced technology like computerized accounting e-commerce, e-banking, mobile banking, e taxation.
- Understand the procedural part & documentation in life & general insurance business.
- Analyze positive & negative impact of any particular incident at national & international level on the economy.
- Understand basic knowledge of statistical techniques applicable to the business.
- Obtain knowledge of various provisions of Income Tax Act, & their application in computation of Income of individuals & firms under various heads of Income.

#### Course Outcomes for all the programs:

- Acquire basic Accounting Knowledge applicable to the business.
- Understand fundamentals of Life and General Insurance business.
- Acquaint students with concepts and principles of Marketing.
- Understand basic principles and functions of Business Management.
- Create legal awareness among the students.
- Make students familiar with professional and modern management and emerging horizons in the field of management.
- Encouragement to students through success stories of entrepreneurs.
- Create awareness regarding the changing picture and needs of economy and realize basic problems of Indian Economy.
- Acquire basic knowledge of co-operative Society and its administration.
- Develop awareness regarding Corporate Accounting in conformity with provisions of Indian Company Act 1956 and Indian Accounting Standards.
- Expose students to Cost Accounting and Management Accounting.
- Create awareness about changing micro and macroeconomic policies and theories.
- Acquaint the students with changing role of Banking and Financial intermediaries in the process of growth and development.
- Acquaint the students with concept of rural and women entrepreneurship.

## **Course Outcomes:**

### **Principle of Business Management:**

- To acquaint the students with the basic principles and functions of business management.
- To make the students familiar with the professional management and the emerging horizons in the field of Management
- To familiarize the students with the basic concepts and principles of management. The student should clearly understand the definitions of different areas of management.

### **Financial Accounting:**

- To impart basic accounting knowledge as applicable to Business
- To acquaint the students with the final accounts of partnership firms.
- To make the students familiar with the consignment account and single entry system

### **Insurance**

- To enable the students to know the fundamentals of Insurance.
- To expose the students to procedural part and documentation in Life Insurance business.
- To create awareness among the students to become a life Insurance Agent.
- To enables the students to know the fundamentals of General Insurance.
- To expose the students to procedural part and documentation in General Insurance business.

### **Fundamentals of Entrepreneurship**

- Know the Problems of rural entrepreneurship in Agriculture and rural industry.
- Understand the Strategy for development of rural entrepreneurship.
- Know the Concept Importance & Recent position of Industrial Estate and Special Economic Zone
- To impart the practical knowledge of Entrepreneurship.
- To develop entrepreneurship qualities and skills.
- To acquaint students with the state policy on entrepreneurship development.sc
- To acquaint the students with the concept of rural and women entrepreneurship
- To impart conceptual knowledge of project management
- To encourage the students through successful stories of entrepreneurs

### **Money and Financial System**

- To acquaint the students with changing role of banking and financial intermediaries in the process of growth and development.
- To explain the nature, functions and issues related to money, banking and non-banking financial; institutions.

### **Corporate Accounting**

- To develop awareness of students and to train them in Corporate Accounting in conformity with the provisions of Indian Companies Act 1956 and Indian Accounting Standards.
- It aims at training the students in the practical aspects and computerized accounting.

### **Business Statistics**

- To introduce the students an of the field of statistics & statistical
- To acquaint them methods of summing & analysis the data.
- Define them the terms ‘\_population’, sample applied to statistics.

### **Modern Management Practices**

- To make students familiar with the modern management practices being used by the corporate sector.
- To expose the students to importance and applicability of various modern management practices

### **Business Regulatory Framework**

- This course is designed to acquaint the commerce students with the knowledge of Business Laws and how these laws affect the trade, industry and corporate sector in the country.
- The course also takes care of the developments of information technology in business and information rights of the citizens by including the cyber Law and Right To Information Act

### **Co-Operative Development**

- To study the meaning and principles of co-operation
- To study the agricultural and non-agricultural credit co-operative institutions
- To study the co-operative movement in Maharashtra
- To study the impact of Globalization on co-operative movement.

### **Advanced Accountancy**

- To expose students to advanced accounting issues and practices.
- To expose students to Cost Accounting & Management Accounting
- To acquaint the students about Final Accounts of Bank
- To obtain knowledge of fire insurance claims and hire purchase system

### **Advanced Accountancy (Auditing)**

- To acquaint the students with the meaning and process of auditing
- To introduce the students with the computation of taxable income from salary, business and house property etc.

### **Advanced Accountancy (Taxation)**

- To obtain knowledge of various provisions of the Income Tax Act and their application in Computation of income of individuals under Varian's heads of income.
- To obtain knowledge of provisions of Income Tax Act relating to various procedural and administrative matters and of (computation of income under various heads relating to all types of assesses other than individual.
- The Course is designed to provide understanding of Direct Tax Laws including Rules pertaining thereto and application to different business situations.

### **Principles of Marketing**

- To enable the students to understand the principles of Marketing.
- To familiarize the students various concepts of the marketing.
- To know the students various advertising medias and distribution channels.
- To know the 7 Ps of Marketing

### **B.Com. I and II – English (Compulsory):**

#### **Program Outcomes:**

- To inspire the students for critical innovative thinking in oral, written and visual communication.
- To explain communication theories like describing narrating etc.
- To introduce them communication skill of listening, reading, writing and speaking.
- To explain the opportunities in the field of business communication.
- Prepare them to use fundamental business principles and practical to solve business problems.
- To teach them consumer advertising, information transfer and interpretation of data how to write notice, agenda and minute of meetings.
- The students will practice reading comprehension skills and increase vocabulary.
- They can identify new vocabulary through contextual clues and use of affixes, suffixes etc.

#### **Program Specific Outcomes:**

- It will help students to enhance linguistic competence.
- Students will able to describe object, people, places and daily routine.
- Students will get the knowledge about narration, description, writing a C.V., a letter of application, news report, making enquires and giving instruction.
- With the help of reading comprehension, they can study short-stories, essays, poems, literary articles based on the experiences of writers of memories, one-act-plays and poems.

#### **Course Outcomes:**

- Students will get the knowledge about narration, description, writing a C.V. and a Letter of Application, News Report, Making Enquires and Giving Instruction.
- With the help of reading comprehension, they can study short-stories, essay, and poems, literary

articles based on the experiences of writers, of memories, one act and poems.

- It will help students to enhance linguistic competence.
- Students will be able to describe objective, people, places and daily routine.

### **B.Com.I (Paper I) Program Outcomes:**

#### **B. Com. I Marathi Paper I and II Shabdasanhita**

- To acquaint the students about the autobiography.
- To acquaint the students about the works of eminent personalities in the field of education.
- To give the students the knowledge of importance of language, the factors affect in development of personality and linguistic.
- To develop the interest of poetry.
- To guide the students about essay writing for competitive examinations.

#### **(Shabdsanhita) (CGE 1,2)**

- To develop attitude of literary forms like poetry, story, biography, drama etc.
- To develop Reading, Writing and Communication skills.
- To develop social ethics.
- To introduce the students about the writers, poets.
- To inculcate the importance of Selfreliance, National Integrity and Human values.
- Practical use of linguistic skills.

### **B.Com. II Business Communication**

#### **Program Outcomes :-**

- PO 1. The B. Com. graduates would be able to acquire basic and fundamental knowledge and skills for doing business and commercial activities of their choice.
- PO 2. The program also empowers the graduates to appear for various competitive exams or choose a profession of their choice such as CA, CS, ICWA, MBA, M.Com etc.
- PO 3. The program enables the students to acquire the accounting knowledge, management principles, retail trading, banking and insurance transactions, business economics and financial management.
- PO 4. The students also acquire knowledge in the field of management accounting, corporate accounting, statistical and mathematical techniques and knowledge relating to corporate law and business laws.
- PO 5. The students become capable of doing a business of their choice or choosing a profession or can become employees having basic knowledge and skill required for such activities.

#### **Course Outcomes:**

- CO1 Discuss about the various concepts of communication, principles, need and process.
- CO2 Outline the barriers to communication and essential ways to overcome the barriers.  
Explain about the various types of communication and their merits and demerits.
- CO3 Outline the various channels of communication and their role with advantages and disadvantages in an organization.
- CO4 Explain the principles of effective letter writing and demonstrate the various business letters and layouts like parts, structure, full block, modified block and semi block.
- CO5 Compose the essential letters pertain to personnel such as Job application, Resume letter acceptance, inter-office memo and letter of resignation.
- CO6 Design the various business correspondence essential organizational functions such as Trade letters, order, credit and status enquiry, complaints, sales and promotional letter and memo.
- CO7 Design the various report writings with respect to organization like Agenda, Minutes of Meeting, Memorandum, office order and circular, reports, etc.

## **ENVIRONMENTAL STUDIES- B.A.II, B.Com II and B.C.A.II**

### **Program Outcomes:**

- To understand environmental concerns by the students at the undergraduate level.
- To understand the relationship of man with the environment and help to change his attitude for more positive, proactive, eco-friendly and sustainable lifestyles.

### **Program Specific Outcomes:**

- To realize the impact of human actions on the immediate environment and the linkage with the larger issues.
- To get information about Environment Protection Acts.

### **Course Outcomes:**

- To get information about climate change, Global warming, Acid rain, Green-house effect, Ozone,layer depletion.
- To cultivate attitudes to safeguard the environment built particularly with field experience.



## **Faculty of Computer Application (B. C. A.)**

### **Program Outcomes (PO), Program Specific Outcomes (PSO) and Course Outcomes (CO)**

#### **Program Outcomes:**

- Understand the concepts of key areas in computer applications.
- Analyze and apply latest technologies to solve problems in the areas of computer applications.
- Identify, formulate, review and analyze complex problems using various techniques.
- Design solutions for complex problem and design the system components or processes that meet the specific needs.
- Create, select and apply appropriate techniques, resources and modern IT tools.
- Apply technical and professional skills to excel in business.
- Develop practical skills to provide solutions to industry, society and business
- To Act as a bridge between academic and industry by involving the industry needs in every aspects of learning and training.
- Recognize the needs for, and have the preparation and ability to engage in independent and lifelong learning.
- Function effectively as an individual, and as a member or leader or project manager in project team.
- Effectively manage project work according to time scheduling, cost scheduling and also satisfy customer needs.
- The Computer Applications curriculum is dedicated to preparing students for productive careers in the competitive world.

#### **Program Specific Outcomes:**

- Students will able to understand, analyze and develop computer programs in the areas related to algorithm, system software, web design and networking for efficient design of computer based system.
- Apply standard software engineering practices and strategies in software project to deliver a quality of product for business success.
- Students will able to know various issues, latest trends in technology development and thereby innovate new ideas and solutions to existing problems.
- To shape the students to meet the requirement of corporate world and Industry standard.
- To provide the students about computing principles and business Practices in software solutions, outsourcing services, public and private sectors.
- To engage in professional development and to pursue post graduate education in the fields of Information Technology and Computer Applications.

#### **Course Outcomes:**

- Students should be able to demonstrate an integrated understanding of key concepts, techniques and trends in the business fields and they should also be able to apply their knowledge after completing this course in diverse contexts of IT Applications in business.
- Students will able to recognize and appreciate the role of computing in a wide variety of activities.

- Demonstrate the basic techniques of creating word document, creating power point presentation, design spreadsheet for office use.
- Skilled in the use of computer systems and software used in commerce and business through practical assignments, exercises and demonstrations.
- Define fundamental account concept, conventions & terminologies.
- Able to master the basic concept and understand the database management system.
- Analyze a given problem and develop an algorithm to solve the problem.
- Problem is also solving through the application of appropriate theories, principles and data.
- Evaluate and analyze the SDLC, understand software design, coding techniques and software testing Principles.
- Implement the various programming languages like C, C++, Dot Net, Java etc.
- Develop the software projects by understanding the client requirement.
- Implement applications that provide computing solutions to address the needs of the industry.

**Faculty of Science**  
**Department of Chemistry**  
**Program Outcomes**

- ❖ To promote understanding of basic facts and concepts in chemistry while retaining the excitement of Chemistry.
- ❖ To make students capable of studying Chemistry in academic and industrial courses and to expose the students to different processes used in industries and their application.
- ❖ To expose the students to various emerging new areas of Chemistry and apprise them with their prevalent in their future studies and their applications in various spheres of Chemical Sciences.
- ❖ To develop problem solving skills in students.
- ❖ To developed ability and to acquire the knowledge of terms, facts, concepts, processes, techniques and principles of subjects.
- ❖ To develop ability to apply the knowledge of contents of principles of Chemistry.
- ❖ To inquire of new knowledge of Chemistry and developments therein.
- ❖ To expose and to develop interest in the fields of Chemistry.
- ❖ To develop the power of appreciations, the achievements in Chemistry and role in nature and society.
- ❖ To develop proper aptitude towards the subjects.
- ❖ To develop skills required in Chemistry such as the proper handling of apparatus and chemicals.

### **Course or Learning Outcomes**

#### **B. Sc. Part – I (Semester I and II)**

- Learning and understanding the concepts of atomic structure and periodicity of elements.
- Useful for the study of role of chemical bonding and molecular structure of ionic bonding and valence bond theory, concepts of hybridization, molecular orbital theory and diagram in formation of various compounds.
- Learning and understanding the basic concepts of fundamentals of Organic Chemistry.
- The study of structure, geometry and nomenclature of chiral and achiral compounds.
- The topic deals with the study of aromaticity and methods of preparation, chemical reaction of heterocyclic compounds in Chemistry.
- Learning and understanding the concepts of chemical energetics, study of the term of thermodynamics and thermochemistry and chemical equilibrium of chemical reaction.
- Knowledge about kinetic theory of gases, term of chemical kinetics and terms like first, second, third and zero order of reaction.
- Useful the study of analytical process in Analytical Chemistry and classification, methodology and applications of paper chromatography and thin layer chromatography.
- Useful for the study of role of titrimetric analysis – acid base titration, complexometric titration.
- To study of physical and chemical analysis methods of water.
- Types, classification and applications of fertilizers in various fields like chemical, agro.

#### **B. Sc. Part – II (Semester III and IV)**

- Learning and understanding of electrolytic conductivity, transport number, concepts of thermodynamics, entropy and characteristics of third order reactions.
- Understanding of behavior of gases, ideal gas with suitable examples and learning and understanding of theoretical basis of adsorption phenomenon, dynamic nature of surface and its applications.
- Learning and understanding of basic concepts in gravimetric analysis and water analysis techniques, the knowledge about concepts of corrosion and electroplating.
- Learning of column and ion exchange chromatography, biofuels, copyright and trademarks.

- Gain knowledge about applications of chelates, coordination compounds and properties of 3d-series elements.
- Student will learn the basic knowledge about the qualitative analysis of inorganic compounds and 4f block elements.
- To impart the knowledge about synthesis, reactivity and application of carboxylic acid, amines and diazonium salts and aldehyde and ketones.
- Students will learn the basic knowledge of conformational analysis of organic compounds and carbohydrates.

### **B. Sc. Part – III (Semester V and VI)**

- Useful to understand the role of acids and bases, non- aqueous solvents, geometry and stability of metal ion and ligand and the synthesis and applications of semiconductors and superconductors.
- The structure and methods of preparation and applications of organometallic compounds and catalyst in industrial field.
- Learning and understanding of UV, IR, NMR, Mass spectroscopy with prediction of structure of organic compounds.
- Learning and understanding of quantum chemistry and photochemical laws and phenomenon.
- Learning and understanding of various types of solutions, electrodes and applications of emf measurements.
- Learning and understanding of techniques, applications and methods of gravimetric analysis, flame photometry, colorimetry, spectrophotometry, potentiometry and chromatography.
- The paper focused on the mechanism of reactions in coordination chemistry and nuclear chemistry. The characteristics, properties of f- block elements, iron and steel and bio- inorganic chemistry.
- This paper focused on reagents, retrosynthesis, electrophilic addition, knowledge of terpenoids and classification, synthesis and uses of drugs.
- Learning and understanding of phase equilibrium, thermodynamics, solid state chemistry, Weiss and miller indices, kinetics with side, chain, consecutive and explosive reactions.
- Learning and understanding of whole process of sugar industry, industrial heavy chemicals, petroleum industry and classification, synthesis, characterization and applications of nanotechnology.

## **B.Sc. Part – I (Computer Science) Semester – I and II**

### **Program Outcomes (PO):**

Upon successful completion of the B.Sc. Computer Science (Optional), the student should have met the following Outcomes:

- PO1: Disciplinary Knowledge: Graduates will gain in-depth understanding in their specific major or discipline, mastering the foundational principles and theories, as well as advanced concepts. Execute strong theoretical and practical understanding developed from the specific programme in the area of work.
- PO2: Problem-Solving Skills: Graduates will learn to use their knowledge to identify, analyze, and solve problems related to their field of study.
- PO3: Analytical Skills: Graduates will gain the ability to collect, analyze, interpret, and apply data in a variety of contexts. They might also learn to use specialized software or equipment.
- PO4: Research Skills and Scientific temper: Depending on the field, graduates might learn how to design and conduct experiments or studies, analyze results, and draw conclusions. They might also learn to review and understand academic literature.
- PO5: Communication Skills: Many programs emphasize the ability to communicate effectively, both

orally and in writing. Graduates may learn to present complex information clearly and succinctly, write detailed reports, and collaborate effectively with others.

PO6: Ethics and Professionalism: Graduates may learn about the ethical and professional standards in their field, and how to apply them in real-world situations.

P07: Integration: Integrate knowledge of Computer Science with associated subjects like mathematics, statistics, electronics etc. to build and explore problem solving concepts.

### **B.Sc. Part – I Computer Science Optional (Semester– I) (NEP)**

**Course I                      Course Code: DSC-I**

**Course Title: Basics of C Programming**

#### **Course Outcomes:**

After successful completion of this course, students will able to:

- 1) Demonstrate a familiarity of computer programming language concepts.
- 2) Understand to develop C programs on Linux platform.
- 3) Use basics of C language syntax as identifiers, keywords, variables, data types and operators
- 4) Apply the concept of branching, looping, decision-making statements and Array for problem solving.

### **B.Sc. Part – I Computer Science(Optional) (Semester –I) (NEP)**

**Course I                      Course Code: DSC-II**

**Course Title: Database Concepts**

#### **Course Outcomes:**

After successful completion of this course, students will able to:

- 1) Describe the basic concepts of DBMS and various databases used in real applications.
- 2) Demonstrate the principles behind systematic database design approaches.
- 3) Describe the fundamental elements of Relational Database Management Systems.
- 4) Use various commands in data languages with example.

### **B.Sc. Part – I Computer Science (Optional) (Semester –I) (NEP)**

**Course I Course Code: DSC P – I**

**Course Title: Practical Based on DSC – I and DSC – II**

#### **Course Outcomes:**

After successful completion of this course, students will able to:

- 1) Understand basic structure if C Programming, declaration and usage of variables, use of data type and operators.
- 2) Implement control structures and array to develop a C program.
- 3) Design database for business applications.
- 4) Use various commands in data languages on databases.

### **B.Sc. Part – I Computer Science Optional (Semester– II) (NEP)**

**Course I Course Code: DSC-III**  
**Course Title: Advanced C Programming**

**Course Outcomes:**

After successful completion of this course, students will able to:

- 1) Understand the concept and importance of pointers in C language.
- 2) Demonstrate an understanding of functions in problem solving.
- 3) Understand working of structure and dynamic memory allocation.
- 4) Apply file handling techniques using C language.

**B.Sc. Part – I Computer Science (Optional) (Semester –II) (NEP)**  
**Course I Course Code: DSC-IV**  
**Course Title: Advanced Database**

**Course Outcomes:**

After successful completion of this course, students will able to:

- 1) Understand various functions and subqueries.
- 2) Understand various joins and views.
- 3) Use the control statements and stored procedures.
- 4) Use the cursors and triggers.

**B.Sc. Part – I Computer Science (Optional) (Semester –II) (NEP)**  
**Course I Course Code: DSC P – II**  
**Course Title: Practical Based on DSC – III and DSC – IV**

- 1) Understand how to reuse code using functions and pointers and MLA functions to allocate memory at run time.
- 2) Define a structure to declare the data members of different data types according to needs and handles different file handling techniques using C language.
- 3) Use of functions, queries, sub queries, joins and views on databases.
- 4) Use of stored procedures and triggers on databases.

**B.Sc. Part – II Computer Science (Optional) (Semester – III)**  
**Course Code: DSC-C11 Computer Science Paper –V Course**  
**Title: Web Technology**

**Course Outcomes:**

Upon successful completion of this course, students will be able to

1. understand the principles of web design.
2. construct basic websites using HTML and Cascading Style Sheets.
3. build dynamic web pages with validation using JavaScript.
4. develop a modern web application that meets the current industry requirement.

**B.Sc. Part – II Computer Science (Optional) (Semester – III) Course Code:**  
**DSC-C12 Computer Science Paper –VI Course Title: Object Oriented**  
**Programming Using C++**

**Course Outcomes:**

Upon successful completion of this course, students will be able to

1. understand the principles of web design.
2. understand how C++ improves C with object oriented features
3. learn syntax and semantics of C++ programming language
4. learn how to write inline functions for efficiency and performance.
5. learn how to overload functions and operators in C++.
6. learn how to design C++ classes for code reuse.
7. learn how inheritance promotes code reuse in C++.
8. learn how inheritance and virtual functions implement dynamic binding with polymorphism.

**B.Sc. Part – II Computer Science (Optional) (Semester – IV)**  
**Course Code: DSC-D11**  
**Computer Science Paper –VII Course**  
**Title: Cyber Security Essentials**

**Course Outcomes:**

Upon successful completion of this course, students will be able to

1. understand the concept of information security management.
2. learn different access control methods.
3. understand wireless network security.
4. learn cyber security laws and the importance of security audit.

**B.Sc. Part – II Computer Science (Optional) (Semester – IV)**  
**Course Code: DSC-D12**  
**Computer Science Paper –VIII Course**  
**Title: Data Structure Using C++**

**Course Outcomes:**

Upon successful completion of this course, students will be able to

1. understand the basic concepts such as Abstract Data Types, Linear and Non-Linear Data structures.
2. choose appropriate data structures to represent data items in real-world problems.

3. analyze the time and space complexities of algorithms.
4. design programs using a variety of data structures such as array, stacks, queues, and linked list.
5. analyze and implement various kinds of searching and sorting techniques.

**B.Sc. Part – III Computer Science (Optional) (Semester – V)**  
**Course Code: DSE-E21      Computer Science Paper – IX**  
**Course Title: Core Java**

**Course Outcomes:**

After successful completion of this course, students will able to:

- 1) use the syntax and semantics of java programming language and basic concepts of OOP.
- 2) apply the concepts of Multithreading and Exception handling to develop efficient and error free code
- 3) develop reusable programs using the concepts of inheritance, polymorphism, interfaces and packages.
- 4) design and program stand-alone Java applications and GUI

**B.Sc. Part – III Computer Science (Optional) (Semester – V)**  
**Course Code: DSE-E22      Computer Science Paper –X**  
**Course Title: C# Programming**

**Course Outcomes:**

After successful completion of this course, students will able to:

- 1) understand framework and architecture of .NET.
- 2) learn common type system of .NET.
- 3) learn object oriented concepts of C#.net
- 4) learn graphical user interface (GUI) with windows form controls their properties, methods and events.

**B.Sc. Part – III Computer Science (Optional) (Semester – V)**  
**Course Code: DSE-E23      Computer Science Paper –XI**  
**Course Title: Linux Operating System**

**Course Outcomes:**

After successful completion of this course, students will able to:

- 1) learn architecture and basics of Linux Operating System.
- 2) understand the kernel-shell and general purpose utilities.
- 3) understand file system of Linux operating system.
- 4) learn Process management and Simple BASH Programming.



**B.Sc. Part – III Computer Science (Optional) (Semester – V)**  
**Course Code: DSE-E24      Computer Science Paper –XII**  
**Course Title: Basics of Python**

**Course Outcomes:**

After successful completion of this course, students will able to:

- 1) understand why Python is a useful scripting language for developers.
- 2) learn how to write loops and decision statements in Python.
- 3) learn how to use lists, tuples and dictionaries in Python programs.
- 4) use of functions and modules in Python programs.

**B.Sc. Part – III Computer Science (Optional) (Semester – VI)**  
**Course Code: DSE-F21      Computer Science Paper –XIII**  
**Course Title: Advanced Java**

**Course Outcomes:**

After successful completion of this course, students will able to:

- 1) develop distributed business applications, develop web pages using advanced server-side programming through servlets and Java server pages.
- 2) demonstrate approaches for performance and effective coding.
- 3) learn database programming using Java.
- 4) study web development concept using Servlet and JSP.

**B.Sc. Part – III Computer Science (Optional) (Semester – VI)**  
**Course Code: DSE-F22      Computer Science Paper –XIX**  
**Course Title: ASP.NET**

**Course Outcomes:**

After successful completion of this course, students will able to:

- 1) understand Web server, HTTP request response architecture.
- 2) learn Web forms and their controls.
- 3) learn state management in web forms.
- 4) understand ADO.NET Architecture with connection oriented and Disconnected layer.

**B.Sc. Part – III Computer Science (Optional) (Semester – VI)**  
**Course Code: DSE-F23      Computer Science Paper –XV**  
**Course Title: Advanced Linux OS**

### **Course Outcomes:**

After successful completion of this course, students will be able to:

- 1) understand the working and use of NANO editor.
- 2) learn Regular expressions using metacharacters.
- 3) learn filters with the help of regular expression.
- 4) learn advanced BASH shell Programming.

### **B.Sc. Part – III Computer Science (Optional) (Semester – VI)**

**Course Code: DSE-F24      Computer Science Paper –XVI**

**Course Title: Advanced Python**

### **Course Outcomes:**

After successful completion of this course, students will be able to:

- 1) learn how to use exception handling in Python applications for error handling.
- 2) makes code more reusable and easier to work with larger programs using oops.
- 3) understand Python programming using Django framework.
- 4) develop web pages or web applications using Django.

## **Department of Microbiology**

### **Course Outcomes**

**Bsc.I**

**B.Sc. I Semester I 2023-24**

### **Paper-I DSC 25 A Introduction to Microbiology**

#### **Course Outcomes:**

1. To develop a good knowledge of the discipline of Microbiology and the contributions made by prominent scientist in this field.
2. To develop a very good understanding of the characteristics of different types of microorganism, method to organize these into and basic tools to study these in the laboratory.
3. To Explain the useful and harmful activities of the microorganism and scope of different branches of microbiology.
4. To describe characteristics of bacterial cells, cell organelles and various appendages like capsule, flagella/pilli.

### **Paper-II DSC 26 A Basic Techniques in Microbiology**

#### **Course Outcomes:**

1. To study the staining techniques for the observation of bacteria and bacterial cell components.
2. To study the working principle, handling and use of microscopes for the study of microorganisms.

3. To understand the principles of sterilization and disinfection of culture media, glassware and plastics ware and objects to be used for microbiological work.

## **B.Sc. I Semester II 2023-24**

### **Paper-III DSC 25 B Bacteriology**

#### **Course Outcomes:**

1. To describe the nutritional requirements of bacteria and other microbes which grow under extreme environments.
2. To understand the basic laboratory experiments to isolate, cultivate and differentiate bacteria.
3. To study the preservation of bacteria in the laboratory.

### **Paper-IV DSC 26 B Microbial Biochemistry**

#### **Course Outcomes:**

1. To develop a very good understanding of various bio molecules which are required for development and functioning of a bacterial cell.
2. To develop knowledge of how the carbohydrates make the structural and functional components such as energy generation and as storage food molecules for the bacterial cell.
3. To differentiate the concepts of aerobic and anaerobic respiration and different metabolic pathways in microorganisms.

## **B.Sc I Practical Course Outcomes**

1. To understand basic techniques in microbiology laboratory.
2. To study the compound microscope and the simple and special staining techniques of bacteria and bacterial cell components.
3. To understand the working principle and application of laboratory equipment.
4. To study the preparation, sterilization and use of various culture media.
5. To understand basic laboratory experiments to isolate and cultivate.
6. To study various biochemical tests used to differentiate bacteria.

## **Bsc.II**

## **Bsc.II Semester III 2023-24**

### **Paper-V C-9 DSC 5 Microbial Physiology & Metabolism**

#### **Course Outcomes:**

1. To make the students learn concepts of microbial physiology.

2. To develop a good understanding regarding effect of environments factors on growth of microorganism.
3. To understand the mechanism of transport across microbial cell membrane.
4. To clear he basic concepts of microbial metabolism.

### **Paper-VI C-9 DSC 6 Applied Microbiology**

#### **Course Outcomes:**

1. To develop the knowledge regarding air micro-flora and its role and analysis.
2. To study milk microbiology and quality control of milk.
3. To study water microbiology, water analysis and purification and disinfection.
4. To learn the basic understanding f industrial microbiology.
- 5.

### **Bsc.II Semester IV 2023-24**

### **Paper-VII C-5 DSC 7 Microbial Genetics & Molecular Biology**

#### **Course Outcomes:**

1. To learn the basic concepts of microbial genetics.
2. To gain knowledge regarding types of mutation.
3. To demonstrate the model of gene transfer in bacteria.
4. To gain knowledge about DNA repair and Lac- operon.

### **Paper-VIII C-5 DSC 8 Basic in Medical Microbiology & Immunology**

#### **Course Outcomes:**

1. To learn about basic concept of medical microbiology.
2. To make aware students about disease
3. To understand the defence mechanism of vertebrate body.
4. To learn about concept of antigen and antibody.

### **B.Sc II Practical Course Outcomes**

1. To understand basic techniques in special staining.
2. To study the effect of environmental factors of micro-organism.
3. To study the techniques of bacteriology analysis of water.
4. To understand the primary and secondary screening techniques of industrially important microorganism.
5. To study isolation and identification of pathogens

### **Learning Outcomes of Microbiology**

#### **B.Sc. I Semester I and II 2023-24**

Paper –I Introduction to Microbiology  
Paper –II Basic Techniques in Microbiology  
Paper –III Bacteriology  
Paper –IV Biochemistry

### **Learning Outcomes:-**

- ✓ Acquired knowledge and understanding of the microbiology concept as applicable to diverse areas such as medical, industrial, environment, genetics, agriculture, food and others.
- ✓ Demonstrate key practical skills in working with microbes for study and use in the laboratory as well as outside, include the use of good microbiological practice.
- ✓ Competent enough to use microbiology knowledge and skills to analyze problem involving microbes, articulate these with term members \ other stalk holder, and undertaken remedial studies .etc.
- ✓ Develop a border perspective of the discipline of Microbiology to enable him to identify challenging societal problems and plan his professional career to develop innovative solutions for such problem.

### **Learning Outcomes of Microbiology B.Sc. II Semester III and IV 2023-24**

Paper –V Microbial Physiology & Metabolism  
Paper –VI Applied Microbiology  
Paper –VII Microbial Genetics & Molecular Biology  
Paper –VIII Basic in Medical Microbiology & Immunology

### **Learning Outcomes :-**

- ✓ Acquired knowledge and understanding of the microbiology concepts as applicable to diverse and such as medical, industrial, environment, genetics, agriculture, food and others.
- ✓ Demonstrate key practical skills in working with microbes for study, use in laboratory & outside, include the use of good microbiological practice.
- ✓ Develop a border perspective of the discipline of Microbiology to enable him to identify challenging societal problems and plan his professional career to develop innovative solutions for such problem.

### **Program Outcomes for Academic Year 2022-23**

#### **Mathematics**

PO1: Scientific temper will be developed in Students.

PO2: Students will acquire basic Practical skills & Technical knowledge along with domain knowledge of different subjects in the science stream.

PO3: Students will become employable; they will be eligible for career opportunities in Industry, or will be able to opt for entrepreneurship.

PO4: Students will possess basic subject knowledge required for higher studies, professional and applied courses like Management Studies, Law etc.

PO5: Students will be aware of and able to develop solution oriented approach towards various Social and Environmental issues.

## **Course Outcomes For Academic Year 2022-23**

### **B.Sc. (Mathematics) (Part I) (Semester-I)**

#### **B.Sc.I Maths I – Calculus (Course code:DSC-A5)**

Title of course: Course Learning Outcomes: Upon successful completion of the course students will able to

- CO1: Evaluate the limit and examine the continuity of a function at a point.
- CO2: Understand the consequences of mean value theorems for differentiable functions.
- CO3: Apply Leibnitz theorem to obtain higher order derivatives of product of two differentiable function

#### **B.Sc.I Maths II - Differential Equations (Course code:DSC-A6)**

Course Learning Outcomes: Upon successful completion of the course students will able to:

- CO1: Understand types of differential equations.
- CO2: Solve different types of ordinary differential equations.
- CO3: Understand applications of differential equations.

## **B.Sc. (Mathematics) (Part I) (Semester-II)**

#### **B.Sc.I Maths III - Multivariable Calculus (Course code:DSC-B5)**

Course Learning Outcomes: Upon successful completion of the course students will able to

- CO1: Learn conceptual variations while advancing from one variable to several variables in calculus.
- CO2: Set up and solve optimization problems involving several variables.
- CO3: Learn the concept of Jacobian of a transformation

#### **B.Sc.I Maths IV - Basic Algebra (Course code:DSC-B6)**

Course Learning Outcomes: Upon successful completion of the course students will able to:

- CO1: Use fundamental concepts in Mathematics like sets, relations and functions.
- CO2: Use fundamental concepts in Number theory.
- CO3: Solve examples on congruence,
- CO4: Determine  $n^{\text{th}}$  roots of unity.
- CO5: Understand various properties of hyperbolic

## **B.Sc. (Mathematics) (Part II) (Semester-I)**

#### **B.Sc.II Maths V- Elements of Differential Equations (Course code:DSC-CS)**

Course Learning Outcomes: This course will enable the students to:

- CO1: Identify types of higher order ordinary differential equations.
- CO2: Solve different types of higher order ordinary differential equations.
- CO3: Understand geometrical interpretation of simultaneous and total differential equations.

### **B.Sc.II Maths VI- Numerical Methods (Course code:DSE 06)**

Course Learning Outcomes: This course will enable the students to:

- CO1: Find numerical solutions of algebraic, transcendental and system of linear Equations.
- CO2: Learn about various interpolating methods to find numerical solutions.
- CO3: Find numerical solutions of integration and ODE by using various methods.
- CO4: Apply various numerical methods in real life problems.

## **B.Sc. (Mathematics) (Part II) (Semester-II)**

### **B.Sc.II Maths VII - Vector Calculus (Course Code :DSE-D5)**

Course Learning Outcomes: This course will enable the students to:

- CO1: Understand and evaluate the concepts of gradient, divergence and curl of point functions in terms of Cartesian co-ordinate system.
- CO2: Understand and evaluate different types of line, surface and volume integrals and the two integral transformation theorem of Gauss and Stokes.

### **B.Sc.II Maths VIII - : Integral Calculus (Course code: DSE-D6)**

Course Learning Outcomes: This course will enable the students to:

- CO1: Understand special functions
- CO 2: Understand types of multiple integrals
- CO 3: Apply special functions in applications
- CO 4: Apply multiple integrals in real life problems.

## **Department of Botany Program Outcomes Bsc.I & II**

- Understanding of Plant Diversity and its importance in the maintenance of ecological balance.
- Students learn to carry out practical work, in the field and in the laboratory, interpreting plant morphology and anatomy, Plant identification, Vegetation analysis techniques.
- Apply the knowledge of basic science, life sciences and fundamental process of plants.
- Apply modern techniques and instruments for Biochemical estimation, Molecular Biology, Biotechnology, Plant Tissue culture experiments, cellular and physiological studies of plants with an understanding of the applications in human life.
- Apply the knowledge gained from the studies for the upliftment of society via addressing health, environmental issues, food scarcity etc.

## **Department of Botany Course Outcomes Bsc.I**

## **B.Sc. I Semester I &II 2023-24**

**Paper-I DSC 13A : Microbes, Algae and Biofertilizers**

**Paper-II DSC 14A : Cell biology and Analytical techniques**

**Paper-III DSC 13B : Mycology, Phytopathology and Mushroom  
Cultivation**

**Paper-IV DSC 14B : Archegoniate (Bryophytes, Pteridophytes and  
Gymnosperms)**

### **Course Outcomes**

- 1) Students will be able to recognize the structure, types and multiplication of viruses.
- 2) Students will be able to understand the bacterial types, structure and mode of reproduction.
- 3) Students will be able to identify the different types of algae and their importance in day-to-day life.
- 4) Students will be able to develop the skills for the production of different types of Biofertilizers.
- 5) Students will be able to distinguish the prokaryotic and eukaryotic organisms and acquire the knowledge of different plant cell organelles and their role in the plant body.
- 6) Students will be able to understand the different types of cell division and their phases.
- 7) Students will be able to handle all types of microscope.
- 8) Students will be able to develop a skill in the chromatography techniques.
- 9) Students will be able to identify and classify the different fungi and also realize the economic importance of fungi.
- 10) Students will be able to identify the lichens on the basis of morphology and to know the medicinal value of the lichens.
- 11) Students will be able to recognize the different plant diseases and their management.
- 12) Students will be able to develop the soft skill technique in the Mushroom Cultivation and realize the commercial status of the mushrooms.
- 13) Students will be able to identify the bryophytes and their importance.
- 14) Students will be able to recognize the characters and ecological importance of pteridophytes.
- 15) Students will be able to identify, classify the gymnosperms and understand the Economic importance of gymnosperms..

## **Bsc.II**

### **Course Outcomes**

## **Bsc.II Semester III 2023-24**

**Paper-V DSC C13: Plant Systematics and Anatomy**



### **Course outcome**

After successful completion of the course, the students will be able

1. To know the scope and importance of the plant systematics.
2. To understand plant morphology, nomenclature and classification
3. To prepare and demonstrate herbarium and to understand importance of Botanical gardens.
4. To examine internal organization of plant organs.
5. To differentiate and understand plant tissue systems.
6. To analyze the composition of different parts of plant.

### **Paper-VI DSC C14: Genetics and Molecular Biology**

#### **Course outcome**

After successful completion of the course, the students will be able

1. To understand the principles of Mendelian inheritance and gene interaction.
2. To differentiate between structural and numerical variations in chromosomes.
3. To analyze and solve genetic problems on linkage and crossing over.
4. To know the composition and significance of nucleic acids.
5. To summarize concept of central dogma and genetic code.

### **Bsc.II Semester IV 2023-24**

### **Paper-VII DSC D13: Plant Ecology and Economic Botany**

#### **Course outcome**

After successful completion of the course, the students will be able

1. To understand core concepts of biotic and abiotic components.
2. To gain and insight in to the diverse ecosystem, related food web and ecological pyramids.
3. To prepare map of Phytogeographical regions of India.
4. Know importance of plants and plant products and their utility.
5. To know the centre of origins of different crop plants.
6. To understand importance and conservation of Germplasm

### **Paper-VIII DSC D14 : Plant Physiology, Nursery and Gardening Techniques**

#### **Course outcome**

After successful completion of the course, the students will be able

1. To understand various physiological processes in plants.
2. To understand significance and mechanism of photosynthesis.
3. To know the process of respiration in higher plants.
4. To design outlines of landscaping and home gardening.
5. To propagate plants by seed and vegetative propagation.

6. To prepare different types of gardens and to know garden equipments.

## **DEPARTMENT OF ZOOLOGY**

### **Program Outcomes**

- PO1: Demonstrate and apply the fundamental knowledge of the basic principles of major fields of Zoology;
- PO2: Apply knowledge to solve the issues related to animal sciences
- PO3: Take appropriate steps towards conservation of endemic and endangered animal species
- PO4: To foster curiosity in the students for Zoology
- PO5: To create awareness amongst students for the basic and applied areas of Zoology
- PO6: To orient students about the importance of abiotic and biotic factors of environment and their conservation
- PO7: To provide an insight to the aspects of animal diversity.
- PO8: To inculcate good laboratory practices in students and to train them about proper handling of lab instruments.
- PO10: Demonstrate knowledge and understanding of Zoology and management principles and apply these to one's own work, as a member and leader in a team.
- PO11: Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change
- PO12: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.

## **Course outcome**

### **F. Y. B.Sc. Zoology**

Learning outcomes :

1. The student will be able to understand, classify and identify the diversity of animals.
2. The student will understand the importance of classification of animals and classify them effectively using the six levels of classification.
3. The student knows his role in nature as a protector, preserver and promoter of life which he has achieved by learning, observing and understanding life.

### **ZO-111,121: Animal diversity I and II**

CO1: To understand the Animal diversity around us.

CO2: To understand the underlying principles of classification of animals. CO3: To understand the terminology needed in classification.

CO4: To understand the differences and similarities in the various aspects of classification.

CO5: To classify invertebrates and to be able to understand the possible group of the invertebrate observed in nature.

### **ZO- 112: Animal Ecology**

CO1: The learners will be able to identify and critically evaluate their own beliefs, values and actions in relation to professional and societal standards of ethics and its impact on ecosystem and biosphere due to the dynamics in population.

CO2: To understand anticipate, analyse and evaluate natural resource issues and act on a lifestyle that conserves nature.

CO3: The Learner understands and appreciates the diversity of ecosystems and applies beyond the syllabi to understand the local lifestyle and problems of the community.

CO4: The learner will be able to link the intricacies of food chains, food webs and link it with human life for its betterment and for non-exploitation of the biotic and abiotic components.

CO5: The working in nature to save environment will help development of leadership skills to promote betterment of environment

### **ZO – 122: Cell Biology**

CO1: The learner will understand the importance of cell as a structural and functional unit of life.

CO2: The learner understands and compares between the prokaryotic and eukaryotic system and extrapolates the life to the aspect of development.

CO3: The dynamism of bio membranes indicates the dynamism of life. Its working mechanism and precision are responsible for our performance in life.

CO4: The cellular mechanisms and its functioning depends on endo-membranes and structures.

### **Course: Practical Zoology -I**

CO1: Recognize the live forms of vertebrates and invertebrates.

CO2: Analyse and describe zoological concepts, including morphology and anatomy.

CO3: Explain conservation and sustainable use of animals;

CO5: Explain and demonstrate the impact that animals have on human society

**Kasegaon Education Society's**  
**Arts and Commerce College, Kasegaon**  
**DEPARTMENT OF ENGLISH**  
**Program Outcomes**

**Program Outcomes of B.Sc -I**

- PO 1. The students acquire knowledge in the field of social sciences, literature and humanities which make them sensitive and sensible enough.
- PO 2. The B.A. graduates will be acquainted with the social, economic, historical, geographical, political, ideological and philosophical tradition and thinking.
- PO 3. The program also empowers the graduates to appear for various competitive examinations or choose the post graduate program of their choice.
- PO 4. The B. A. program enables the students to acquire the knowledge with human values framing the base to deal with various problems in life with courage and humanity.
- PO 5. The students will be ignited enough to think and act over for the solution of various issues prevailed in the human life to make this world better than ever.
- PO 6. Program provides the base to be the responsible citizen

**B.Sc -I Compulsory English Program Outcomes**

- Developing intellectual, personal and professional abilities through effective communicative skills; ensuring high standard of behavioral attitude through literary subjects and shaping the students socially responsible citizens.

**Program Specific Outcomes:**

- On successful completion of the Program, the students will be accurate both in oral and written communication as they will be strong in Grammar and its usage.
- They will be familiar with the conventions of diverse textual genres including fiction, non-fiction, poetry, autobiography, biography, Journal, film, plays, editorials etc.

**Course Outcomes:**

- Able to write reasonably correct English.
- Enrich Vocabulary and its use.
- Able to speak English Correctly
- Develop literary appreciation competence.
- Overcome the drawbacks in Use of English Grammar
- Know about the difference between the language of prose and poetry.
- Develop Rapid reading skills.

**B.Sc.III Compulsory English Program Outcomes**

**Course Outcomes: After the completion of the course, the students will be able to-**

- CO1 Communicate in English, in oral and written modes, in their day-to-day lives as well as at workplace.
- CO2 Face job interviews confidently and effectively
- CO3 Acquire soft skills required at workplace and in real life.
- CO4 Learn group behaviour and team work.
- CO5 Learn to value and respect others views and develop democratic attitude.
- CO6 Face competitive examinations confidently and effectively with adequate linguistic competence.
- CO7 Acquire professional skills required in media writing.
- CO8 Learn to appreciate and enjoy reading poetry and prose passages; acquire human values and develop cultured outlook.

- The language skills and communicate skill being developed students can seek job opportunities in

media, industry, BPO, Teaching field, Banks, government sector through various competitive exams, management, PG courses in social services, law private sector, translator, creative writer so on and so forth.

- English being an international language, proficiency in English gives higher level confidence, smartness and better opportunities. As English is taught in schools and colleges as compulsory subject, much scope is in teaching field.
- There are varieties of English all over the world which accounts for its large scope for research. Further explorations in literature and language are another challenging area for students to pursue.
- Students emerge as competent, confident, employable human resource suitable for different jobs.
- Students exhibit ability to read write and speak in English correctly and fluently.
- Students reflect an insight into life, culture, morality, human psyche and awareness of all current issues.
- Students can connect themselves with the media, technology, ideas, people, locality and world and can make sense out of it.
- Students exhibit democratic spirit, scientific temperament, concern for social justice and equity and good citizenship.
- Students show great concern for environmental issue and act voluntarily for its conservation.
- Students exhibit rational and analytical thinking before coming to conclusion or decision makin

**Program Specific Outcomes:**

- English is a world language and a language in corporate world .The program enabled the students to listen, to speak, to read and to write. They learnt to avoid common errors in English and to improve the skills of spoken and written English.
- Students learnt the skill of facing interviews which is the final hurdle which they had to cross to get the job. They tried to improve their intelligence, behavior ready wit, presence of mind.
- Students developed the skill of using English for journalism. It is helpful for number of media such as newspapers, television, radio, periodicals and even internet in the world of media.
- Group discussion is a challenges and cooperative skill. It judges a candidates worthiness and appropriateness for the job. This technique made the students bold, impressive and studious. It developed students all round personality. It opened a variety of door of employment i.e. Jobs in cooperate companies, tourist guide, teaching professions, etc. Reading comprehension inculcated values as humanity, love futility of war and mutual hatred.

**Course Outcomes:**

- Able to write reasonably correct English.
- Enrich Vocabulary and its use.
- Able to speak English Correctly
- Develop literary appreciation competence.
- Overcome the drawbacks in Use of English Grammar
- Develop skill of written composition – understand and use inter sentence relationship in a passage and know to structure and restructure passages.

Prepare students to acquire complex skills like participating in a group discussion, facing Interview board

**Department of Physics****Program Outcomes: Physics****Programme Outcomes****Knowledge Outcomes**

After completing B.Sc. (Physics) Programme students will be able to:

1. Apply the basic principles of Physics to the events occurring around us and also in the world.
2. Try to find out or analyze scientific reasoning for various things.

**Skill Outcomes**

After completing B.Sc. (Physics) Programme students will be able to:

1. Use of computers and various software and programming skills
2. Apply the knowledge to develop the sustainable and eco-friendly technology for pollution free environment
3. collaborate effectively on team-oriented projects in the field of Physics

4. Communicate scientific information in a clear and concise manner both orally and in writing or through audio video presentations

### **Generic outcomes**

Students will

1. develop ability to work in group
2. Develop capacity of critical reasoning, judgment and communication skills.
3. Develop abilities for logical thinking

### **Programme Specific Outcomes**

PSO1: Students get acquainted with techniques which are useful in industry.

PSO2: Students get conceptual knowledge of entrepreneurship through the co-curricular activities

PSO3: learn the organizational skills and working in group. PSO4: Students will be well versed with use of computers

### **Course Outcomes:**

#### **Semester-I**

#### **B.Sc I Physics Paper I-Mechanics -I**

- Students are able to understand and identify scalar and vector physical quantities in mechanics. □
- Students are able to understand and apply vector algebraic methods to elementary exercises in mechanics □
- Students are able to understand and identify degree and order of given differential equations □
- Students are able to solve second order homogenous ordinary differential equations in mechanics □
- Students are able to understand the conceptual evolution of conservation laws of momentum and energy for both single and system of particles □
- Students are able to understand and apply basic concepts of rotational motion □
- In general, students are capable of correlating above concepts and methods in mechanics to both theoretical and experimental domains revealing analytical as well as numerical skills

#### **B.Sc I Physics Paper II-Mechanics -II**

- Students are able to understand and apply Newtons Law of Gravitation to celestial objects
- Students are able to understand geometry of planetary orbits under the action of central force □

- Students are able to solve numerical problems based on Kepler`s Laws of planetary motion □ Students are able to understand simple concepts like weightlessness, Geosynchronous satellite and GPS □
- Students are able to setup differential equation for simple harmonic motion and its allied cases □
- Students are able to calculate time averages of KE, PE and TE □
- Students are able to revise basic concepts such as stress, strain and elastic constants of elasticity □
- Students are able to derive elastic constants for beam supported at both ends and at one end □ S
- Students are able to derive elastic constant ( $\eta$ ) of a wire under torsional oscillations (Searle`s Method) □
- Students are able to explain the phenomenon of surface tension on the basis of molecular forces □
- Students are able to derive the relation between surface tension and excess pressure □ Students are able to perform an experiment to determine ST by Jaeger`s method □ Students are able to discuss and state the factors affecting the ST □
- In general, students are capable of correlating above concepts and methods to both theoretical and experimental domains revealing analytical as well as numerical skills

## **Semester-II**

### **B.Sc I Physics Paper III Electricity and Magnetism-I □**

- Students are able to understand the physical significance of gradient, divergence and curl □ Students are able to apply concepts in vector calculus such as gradient, divergence and curl related to vector and scalar fields using Gauss, Stokes and green`s theorem □
- Students are able to understand and apply concepts of electrostatic field, potential to point charges, electric dipole and geometrically regular charged bodies □
- Students are able to understand and apply concept of capacitor to isolated conductor, parallel plates, cylindrical and spherical capacitors and allied modifications in it □
- Students are able to understand and apply concept of energy density in electric field □ Students are capable of applying above concepts to solve numerical exercise in electrostatics



### **B.Sc I Physics Paper IV Electricity and Magnetism-II** □

- Students are able to understand importance of complex numbers in analysis of AC Circuits containing Inductance(L) Capacitor(C) and Resistance (R) and their various configurations □ Students are able to define and apply the concepts in AC circuits such as Impedance (Z), reactance (XC and XL), Admittance, Susceptance and Quality Factor (Q) □
- Students are able to understand and design AC bridge: Owen`s Bridge □
- Students reveal mastery in basic terminology in network analysis for further studies □ Students are able to state and apply Network theorems to simple circuits □
- Students are able to understand basic working principle of Ballistic galvanometer □ Students are able to define constants of ballistic galvanometer □
- In general, students are capable of applying above concepts in network analysis to both theoretical and experimental domains □
- Students are able to understand simple elementary concepts such as magnetization and intensity of magnetization □
- Students are able to state Biot-Savart`s law and are capable to apply it to straight, circular wires and solenoid □
- Students are able to understand concept of magnetic vector potential along with Ampere`s circuital law □
- Students are able to understand and explain the phenomenon of hysteresis in magnetism □ Students are able to discriminate different magnetic materials based on their characteristic properties

### **Course outcome**

### **B.Sc II Physics Paper V Thermal Physics and Statistical Mechanics-I**

- Highlight different types of velocities of gas molecules.
- Acquire Knowledge of Maxwell`s distribution of gas molecules.
- Visualize Merits and drawbacks of thermometers.
- Apply knowledge of thermodynamic processes in design of heat engine.

### **B.Sc II Physics Paper VI Waves and Optics –I**

- Apply superposition principle to develop mathematical model of harmonic oscillators.
- To develop the mathematical model for coupled oscillations.

- Understand the ultrasonic waves and their applications.
- Use of Basic principles of sound in context of acoustics of buildings.

### **B.Sc II Physics Paper VII Thermal Physics and Statistical Mechanics-II**

- Develop Conceptual clarity of thermodynamic functions and Clausius Clapeyron equation.
- Appreciate the problem associated with the black body radiation spectrum.
- Know, how the problems can be solved by using Planck's law of radiation.
- Acquire preliminary knowledge of classical and quantum statistical mechanics.

### **B.Sc II Physics Paper VIII Waves and Optics-II**

- Draw ray diagrams to demonstrate Cardinal points.
- Determine the resolving power of prism and grating by making use of Rayleigh criterion.
- Qualitatively study phenomenon of polarization of light.
- Apply phenomenon of interference of light for determination of its wavelength.

### **Practical**

- Acquire skills in setting up of optics experiments.
- Develop the practical skills and techniques for accurate measurements.
- Acquire observational skills

Determine Least counts of different



*Subhika*  
 VC. PRINCIPAL  
 Arts & Commerce College  
 Kasegaon, Tal. Wahwa (Sangli)

-----