

#### GOVERNMENT OF WEST BENGAL

### GOVERNMENT GENERAL DEGREE COLLEGE, LALGARH

LALGARH::JHARGRAM::721516 Website: www.lalgarhgovtcollege.org

### Department of Bengali (CBCS - HONS.)

Attainment of PO & COs of B.A. Bengali Honours:

### **Programme Specific Outcome (PSO):**

By the end of the UG Hons. Programme in Bengali, the student will be able to-

- ❖ Learn in-depth different genres of Bengali Literature. Students will demonstrate a comprehensive understanding of Bengali language and literature, including its historical development and contemporary usage.
- ❖ Students will learn to identify subtext, symbolism, and nuanced language that convey deeper meanings beyond the literal text.
- Solve the grammatical problems, will learn formation of words.
- ❖ Develop the skills of creative writing. Graduates will be able to critically analyze various literary texts, recognizing thematic elements, styles, and cultural contexts.
- ❖ They have experience field survey. They will learn to collect data and develop analytical skills.
- Develop an interest in journalism and theatre.
- To improve their performance in competitive exams such as SSC, NET, SET.

### (CBCS - B.A. General)

Attainment of PO & COs of B.A. Bengali General:

### **Programme Specific Outcome (PSO)**

By the end of the UG GENERAL Programme in Bengali, the students will be able to-

- ❖ Have an in-depth understanding of different genres of Bengali Literature,
- ❖ Solve the grammatical problems.
- ❖ Develop the skills of creative writing.
- ❖ Develop an interest in journalism and theatre.
- ❖ Seek a career in govt. and business sectors requiring the skills of Bengali translators and interpreters.
- ❖ Seek a career in publishing houses as proof-readers, editors and readers.





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### PROGRAMME SPECIFIC OUTCOME FOR 3-YEAR B.A. (HONOURS) IN ENGLISH

#### REVISED SYLLABUS UNDER CBCS

Attainment of PO & COs of B.A. English Honours:

The 3-Year Bachelor of Arts (Honours) in English (CBCS) at Vidyasagar University is structured to help students develop a deep understanding of English literature, language, and related cultural studies. The Choice Based Credit System (CBCS) offers flexibility and a broad-based education, with a focus on both core and elective courses.

#### **Programme Outcomes:**

- 1. Comprehensive Literary Knowledge: Students will gain an in-depth understanding of English literature from various periods, genres, and regions, allowing them to appreciate the diversity of literary expressions.
- 2. Critical Thinking and Interpretation: The program emphasizes the development of critical thinking skills, enabling students to analyze texts, understand underlying themes, and engage with complex literary theories.
- 3. Language and Communication Skills: Graduates will enhance their proficiency in the English language, both in written and oral forms, which is essential for academic and professional success.
- **4. Research Competence**: The curriculum includes training in research methodologies, preparing students to conduct independent research and contribute original insights to the field of English studies.
- **5. Interdisciplinary Connections**: The program encourages students to make connections between literature and other disciplines, fostering a holistic approach to learning.
- **6. Cultural and Ethical Awareness**: Through the study of literature, students will develop a nuanced understanding of cultural diversity and ethical considerations, promoting a more inclusive worldview.

These outcomes prepare students for a variety of career paths, including education, journalism, publishing, content creation, and other fields where analytical and communication skills are highly valued.



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### PROGRAMME SPECIFIC OUTCOME FOR BA (GENERAL) WITH ENGLISH PROGRAM UNDER CBCS

Attainment of PO & COs of B.A. English General:

The Bachelor of Arts (General) with English under the Choice Based Credit System (CBCS) at Vidyasagar University is designed to offer students a broad-based education in the humanities, with a focus on English language and literature. The DSC Courses in English provide foundational knowledge in English studies while allowing students to explore various other disciplines.

### **Programme Outcomes:**

- 1. Fundamental Literary Understanding: Students will acquire a basic yet comprehensive understanding of key literary works, genres, and movements in English literature.
- 2. Enhanced Language Skills: The program emphasizes the development of effective communication skills in English, both in writing and speaking, which is essential for various professional fields.
- **3.** Critical and Analytical Thinking: Students will develop the ability to critically analyze texts, identify themes, and interpret literary works within their historical and cultural contexts.
- **4. Interdisciplinary Learning**: The program allows students to combine English with other subjects, promoting a well-rounded education and the ability to make interdisciplinary connections.
- **5.** Cultural Awareness: Through the study of literature and language, students will gain an understanding of different cultures and perspectives, fostering global awareness and sensitivity.
- **6. Preparation for Diverse Careers**: The skills acquired through this program, including critical thinking, communication, and cultural literacy, prepare students for careers in teaching, content writing, media, public relations, and other related fields.

This program aims to create graduates who are not only proficient in English but also possess a broad understanding of the humanities, making them versatile and adaptable in various career paths.





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#### **DEPERTMENT OF SANSKRIT**

#### PROGRAMME OUTCOME

### **B.A. HONOURS IN SANSKRIT (CBCS)**

Attainment of PO & COs of B.A. Sanskrit Honours:

### **Programme Specific Outcome (PSO)**

By the end of the program UG in Sanskrit, the student will be:

- Expected to know Sanskrit verse, prose and application of Sanskrit Language.
- Expected to appreciate ancient Indian traditions and culture.
- Expected to know about the pedagogical aspects of Sanskrit Teaching.
- Expected to connect Sanskrit to other subjects and disciplines.
- Expected to use the Sanskrit Language in a real-life context.
- Expected to know about Yoga, Astrology, and shine in the field of research.





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#### **DEPERTMENT OF SANSKRIT**

#### PROGRAMME OUTCOME

### **B.A. GENERAL IN SANSKRIT (CBCS)**

Attainment of PO & COs of B.A. Sanskrit General:

### **Programme Specific Outcome (PSO)**

After the completion of the UG programme in Sanskrit, the students will be:

- Expected to know Sanskrit verse, prose and application of Sanskrit Language.
- Expected to appreciate ancient Indian traditions and culture.
- Expected to know about the pedagogical aspects of Sanskrit Teaching,
- Expected to use the Sanskrit Language in a real-life context.
- > Expected to know about Yoga and Astrology.
- > Expected to know about different types of ancient scripts.



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# DEPARTMENT OF SANTALI Curriculum for 3- Year B.A (HONOURS & GENERAL) Santali Programme Specific outcomes

Attainment of PO & COs of B.A. Santali Honours & General:

Programme Specific outcomes for the student of the Santali Department Programme Specific outcome of this course are identified by what students learn and apply. This course impart a deep understanding about Santali language. Language Literature through the stage of evolution and transformation in different perspectives, the influences they have drawn from historical experience. After successful completion of a B.A. three year degree course Hons and General in Santali Subject, a student is expected to achieve the bellow outcomes.

- 1. It is a new Subject and oldest language quality to learn in many ways.
- 2. Creative and critical response to literature in light of cultural values and literary history.
- 3. After completion of Santali Hons students studies in university.
- 4. Eligibility through School Service Commission Examinations and other source as teaching faculty in schools at the primary, secondary levels.
- 5. Scope of social, Community and rural engagement through involvement with government institutions.





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#### **DEPARTMENT OF HISTORY (HONS)**

# Programme Specific Outcomes (PSO) (for the students of the History Department) in Choice Based Credit System

Attainment of PO & COs of B.A. History Honours:

After successful completion of a B.A. three-year-degree course (honours) in History, a student is expected to achieve the following outcomes.

- a) Critical approach to the study of history as a discipline by acquiring the ability to distinguish between fact and fiction with the understanding that there is no one historical truth.
- b) Understanding the theories and history of historical writing.
- c) Developing perspectives on historical inquiry to understand different values and beliefs that shaped and affected the lives of multiple cultures in the past.
- d) Recognition of continuity and change, sequence of historical events across every civilization and any given period of time.
- e) Understanding the concept of cause and effect to identify chains of events and developments, both in the short term and long term. This concept aims to identify, examine and analyse the reasons why events have occurred and the resulting consequences or outcomes.
- f) Developing a range of historical skills, essential for the process of historical inquiry.
- g) Understanding the origin and purpose or usefulness of primary and secondary sources and production of well-researched work using both sources.





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### **DEPARTMENT OF HISTORY (GEN)**

Attainment of PO & COs of B.A History General:

Programme Specific Outcomes (PSO) (for the students of the History Department) in Choice Based Credit System.

After successful completion of a B.A. three-year-degree course (Pass) in History, a student is expected to achieve the following outcomes.

- a) Critical approach to the study of history as a discipline by acquiring the ability to distinguish between fact and fiction with the understanding that there is no one historical truth.
- b) Understanding the theories and history of historical writing.
- c) Developing perspectives on historical inquiry to understand different values and beliefs that shaped and affected the lives of multiple cultures in the past.
- d) Recognition of continuity and change, sequence of historical events across every civilization and any given period of time.
- e) Understanding the concept of cause and effect to identify chains of events and developments, both in the short term and long term. This concept aims to identify, examine and analyse the reasons why events have occurred and the resulting consequences or outcomes.
- f) Developing a range of historical skills, essential for the process of historical inquiry.
- g) Understanding the origin and purpose or usefulness of primary and secondary sources and production of well-researched work using both sources.





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#### **DEPARTMENT OF HISTORY (HONS)**

# Programme Specific Outcomes (PSO) (for the students of the History Department) in Choice Based Credit System SANTALI MEDIUM

Attainment of PO & COs of B.A. History Honours Santali Medium:

After successful completion of a B.A. three-year-degree course (honours) in History, a student is expected to achieve the following outcomes.

- a) Critical approach to the study of history as a discipline by acquiring the ability to distinguish between fact and fiction with the understanding that there is no one historical truth.
  - b) Understanding the theories and history of historical writing.
  - c) Developing perspectives on historical inquiry to understand different values and beliefs that shaped and affected the lives of multiple cultures in the past.
  - d) Recognition of continuity and change, sequence of historical events across every civilization and any given period of time.
  - e) Understanding the concept of cause and effect to identify chains of events and developments, both in the short term and long term. This concept aims to identify, examine and analyse the reasons why events have occurred and the resulting consequences or outcomes.
  - f) Developing a range of historical skills, essential for the process of historical inquiry.
  - g) Understanding the origin and purpose or usefulness of primary and secondary sources and production of well-researched work using both sources.



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#### **DEPARTMENT OF HISTORY (GEN)**

Attainment of PO & COs of B.A. History General Santali Medium:

### Programme Specific Outcomes (PSO) (for the students of the History Department) in Choice Based Credit System.

#### SANTALI MEDIUM

After successful completion of a B.A. three-year-degree course (Pass) in History, a student is expected to achieve the following outcomes.

- a) Critical approach to the study of history as a discipline by acquiring the ability to distinguish between fact and fiction with the understanding that there is no one historical truth.
- b) Understanding the theories and history of historical writing.
- c) Developing perspectives on historical inquiry to understand different values and beliefs that shaped and affected the lives of multiple cultures in the past.
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- f) Developing a range of historical skills, essential for the process of historical inquiry.
- g) Understanding the origin and purpose or usefulness of primary and secondary sources and production of well-researched work using both sources.





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# Department of Political Science Programme Specific Outcomes (PSO) of Political Science (HONS.) Programme Specific Outcomes (PSO) (for the students of the Political Science Department) in Choice Based Credit System

Attainment of PO & COs of B.A. Political Science Honours:

### Programme Specific Outcome(PSO)

- PSO1 Understand political processes, institutions, actors, behavior, ideologies and ideas
- PSO2 Understand major political theories, methods and concepts.
- PSO3 Get the ability to thinking rationally about political interactions in national and international areas.
- PSO4 Understand the ethical dimensions of Politics.
- PSO5 Able to participate in debate in various political issues and give arguments in favour of his view.
- PSO6 Synthesize, analyze, and critically evaluate major arguments in the discipline.
- PSO7 Understand the basic structures and processes of government systems
- PSO8 Develop the ability to analyze political problems, arguments, information, and/or theories.
- PSO09 Enrich students about the parliamentary procedure sand constitutional position of the country.
- PSO10 The students have opportunity to serve as Civil servants. They can go to teaching profession and media sector and also can get job in various NGOs.



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Programme Specific Outcomes (PSO) of Political Science Gen. (Pass Course)

Programme Specific Outcomes (PSO) (for the students of the Political Science Department) in Choice Based Credit System.

Attainment of PO & COs of B.A. Political Science General General:

#### **Programme Specific Outcome (PSO)**

PSO1 Get knowledge about traditions, nature and scope of political theory and able to understand recent development in political theory.

PSO2 Be able to know about importance, utility and impact of Indian Constitution in political system in India and helps to understand the changing nature of Indian polity and society.

PSO3 Students can understand the necessity and benefits of comparative study. Through comparison of various political system of different government in world, students understand government and politics of various countries of the world.

PSO4 To be able to explain the existing socio-political reality.

PSO5 Opportunity of higher study in Political Science or Public Administration or International Relations.

PSO6 The students have opportunity to serve as Civil servants. They can go to teaching profession and media sector and also serve in various NGOs.





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### Department of Political Science (Santali Medium) Programme Specific Outcomes (PSO) of Political Science (HONS.) in Santali Medium

### Programme Specific Outcomes (PSO) (for the students of the Political Science Department, Santali Medium) in Choice Based Credit System

Attainment of PO & COs of B.A. Political Science Honours Santali Medium:

### Programme Specific Outcome(PSO)

- PSO1 Understand political processes, institutions, actors, behavior, ideologies and ideas
- PSO2 Understand major political theories, methods and concepts.
- PSO3 Get the ability to thinking rationally about political interactions in national and international areas.
- PSO4 Understand the ethical dimensions of Politics.
- PSO5 Able to participate in debate in various political issues and give arguments in favour of his view.
- PSO6 Synthesize, analyze, and critically evaluate major arguments in the discipline.
- PSO7 Understand the basic structures and processes of government systems
- PSO8 Develop the ability to analyze political problems, arguments, information, and/or theories.
- PSO09 Enrich students about the parliamentary procedure sand constitutional position of the country.
- PSO10 The students have opportunity to serve as Civil servants. They can go to teaching profession and media sector and also can get job in various NGOs.



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Programme Specific Outcomes (PSO) of Political Science Gen. (Pass Course) in Santali Medium

Programme Specific Outcomes (PSO) (for the students of the Political Science Department, Santali Medium) in Choice Based Credit System.

Attainment of PO & COs of B.A. Political Science General Santali Medium:

#### **Programme Specific Outcome (PSO)**

PSO1 Get knowledge about traditions, nature and scope of political theory and able to understand recent development in political theory.

PSO2 Be able to know about importance, utility and impact of Indian Constitution in political system in India and helps to understand the changing nature of Indian polity and society.

PSO3 Students can understand the necessity and benefits of comparative study. Through comparison of various political system of different government in world, students understand government and politics of various countries of the world.

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PSO6 The students have opportunity to serve as Civil servants. They can go to teaching profession and media sector and also serve in various NGOs.



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#### B.A. HONOURS IN PHILOSOPHY

**Under CBCS SYSTEM** 

2019-2023

Attainment of PO & COs of B.A. Philosophy Honours:

### Programme Specific Outcome (PSO)

Fourteen core courses along with two **SEC** and four **DSE** papers, make up the Philosophy Honors syllabus.

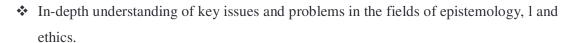
After completion of the UG Hons. in Philosophy degree programme, students will be able to:

- Students will develop argumentative skills as they study various theories and their critiques in the areas of metaphysics, epistemology, logic, philosophy of religion, social and political philosophy. The development of argumentative skills is a fundamental outcome of learning philosophy.
- \* Examine and critically analyze the thought of a particular figure in historical philosophy from ancient to modern times, identifying movements and philosophy.
- Understand the nature and basic concepts of philosophy in relation to the field of metaphysics, epidemiology, logic, ethics, etc.
- ❖ Students will acquire critical thinking skills that will enable them to formulate persuasive arguments in speech and writing. This skill will be honed through the study of logic.
- ❖ Students will acquire skills to understand the nature of the human mind. They will explore learning abilities, personality traits of the mind, and levels of consciousness.
- ❖ To have an overview of the current state of knowledge in a given field and to find the solution to philosophical problems in the contemporary era.
- ❖ To develop the expressive and communicative ability to argue logically and consistently.





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- ❖ The ability to think analytically and critically.
- Understanding of the nature of mind, matter, language, knowledge and reality.
- ❖ Think logically by developing the ability to respond to philosophical theories, propositions and assertions.

### B.A. General Course IN PHILOSOPHY

**Under CBCS SYSTEM** 

2019-2023

Programme Specific Outcome (PSO)

Attainment of PO & COs of B.A. Philosophy General:

After completion of the UG general course in Philosophy degree programme, students will be able to:

- ❖ Argumentative Skills: Students will develop argumentative skills while studying different theories and their criticisms within the field of metaphysics, epistemology, logic, philosophy of religion, social, and political philosophy. The cultivation of reasoning abilities is a fundamental outcome of learning philosophy.
- ❖ Critical Ability: Students will acquire critical abilities, enabling them to construct cogent arguments both in speech and writing. This skill will be honed through the study of logic.
- ❖ Understanding of Human Mind: Students will attain skills to understand the nature of the human mind. They will explore learning skills, personality traits of the mind, and levels of consciousness.
- ❖ Values Enrichment: Students will be enriched with different life values and will be able to practice those values in real-life situations.





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- ❖ Comparative Study: Students will be familiar with both Indian and Western philosophical theories, allowing them to make comparative analyses between these two traditions.
- ❖ Creative Thinking: Students will develop creative thinking regarding new possibilities beyond prevalent philosophical theories.
- ❖ Holistic Knowledge: Students will learn to distinguish between appearance and reality, gaining holistic knowledge of humanity and the world.
- ❖ Comprehensive Knowledge: Students pursuing Philosophy General course will acquire in-depth knowledge of various branches of philosophy, including Classical Indian Philosophy, Metaphysics, Epistemology, Logic, Ethics, Religion, Social and Political Philosophy, Philosophy of Mind, and Contemporary Indian and Western Philosophy.

### B.A. HONOURS IN PHILOSOPHY

(SANTALI MEDIUM)
Under CBCS SYSTEM

2019-2023

Attainment of PO & COs of B.A. Philosophy Honours Santali Medium:

### ☐ Programme Specific Outcome (PSO)

Fourteen core courses along with two **SEC** and four **DSE** papers, make up the Philosophy Honors syllabus.

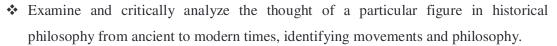
After completion of the UG Hons. in Philosophy degree programme, students will be able to:

❖ Students will develop argumentative skills as they study various theories and their critiques in the areas of metaphysics, epistemology, logic, philosophy of religion, social and political philosophy. The development of argumentative skills is a fundamental outcome of learning philosophy.





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- Understand the nature and basic concepts of philosophy in relation to the field of metaphysics, epidemiology, logic, ethics, etc.
- ❖ Students will acquire critical thinking skills that will enable them to formulate persuasive arguments in speech and writing. This skill will be honed through the study of logic.
- ❖ Students will acquire skills to understand the nature of the human mind. They will explore learning abilities, personality traits of the mind, and levels of consciousness.
- ❖ To have an overview of the current state of knowledge in a given field and to find the solution to philosophical problems in the contemporary era.
- ❖ To develop the expressive and communicative ability to argue logically and consistently.
- ❖ In-depth understanding of key issues and problems in the fields of epistemology, 1 and ethics.
- ❖ The ability to think analytically and critically.
- ❖ Understanding of the nature of mind, matter, language, knowledge and reality.
- Think logically by developing the ability to respond to philosophical theories, propositions and assertions.

B.A. General Course IN PHILOSOPHY

(Santali Medium)
Under CBCS SYSTEM

2019-2023

**Programme Specific Outcome (PSO)** 

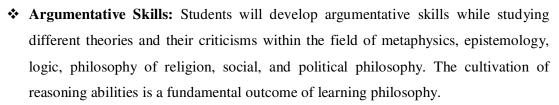
Attainment of PO & COs of B.A. Philosophy General Santali Medium:

After completion of the UG general course in Philosophy degree programme, students will be able to:





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- ❖ Critical Ability: Students will acquire critical abilities, enabling them to construct cogent arguments both in speech and writing. This skill will be honed through the study of logic.
- ❖ Understanding of Human Mind: Students will attain skills to understand the nature of the human mind. They will explore learning skills, personality traits of the mind, and levels of consciousness.
- ❖ Values Enrichment: Students will be enriched with different life values and will be able to practice those values in real-life situations.
- ❖ Comparative Study: Students will be familiar with both Indian and Western philosophical theories, allowing them to make comparative analyses between these two traditions.
- ❖ Creative Thinking: Students will develop creative thinking regarding new possibilities beyond prevalent philosophical theories.
- ❖ Holistic Knowledge: Students will learn to distinguish between appearance and reality, gaining holistic knowledge of humanity and the world.
- ❖ Comprehensive Knowledge: Students pursuing Philosophy General course will acquire in-depth knowledge of various branches of philosophy, including Classical Indian Philosophy, Metaphysics, Epistemology, Logic, Ethics, Religion, Social and Political Philosophy, Philosophy of Mind, and Contemporary Indian and Western Philosophy.





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#### **Government General Degree College Lalgarh**

#### **Department of Sociology**

### A. Program Outcome and Course Outcome of Syllabus of Sociology (Honours) in Choice Based Credit System

Attainment of PO & COs of B.A. Sociology Honours:

### **Programme Outcomes (PO)**

Program Outcomes (POs): Program outcomes refer to the knowledge that students are expected to know at the end of the course as well as the application-based skills that they will learn. The students will acquire these outcomes as they progress through the course.

### A. <u>Programme Specific Outcomes (PSO) (for the students of the Department of Sociology)</u>

After successful completion of a B.A. three year degree course (honours) in Sociology, a student is expected to achieve the following outcomes.

PO-1	Learn about the origin, Intellectual foundation, history and development of sociology.
PO-2:	Learn about the key sociological theories, concepts, and methodologies.  Learn about social institutions, structures and social processes
PO-3	Develop an understanding of various classical and contemporary sociological thinkers and the different schools of sociological thought as well as Indian sociological thoughts
PO-4	Develop skills in designing and conducting sociological research, including data collection, analysis, and interpretation. Learn about various research methodologies
PO-5	Learn to critically engage with emerging social issues applying sociological thinking and enhance skills in interpreting and critiquing various sociological perspectives.
PO-6	Learn to explore and understand issues related to social diversity, social inequality and power in different social contexts.
	Develop a comparative understanding of societies and cultures across the



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	globe and be aware of global social issues and their local implications.
PO-7	Develop lifelong learning capabilities and learn to apply sociological concepts and theories to real-world social issues and problems.
PO-8	Learn to present sociological ideas and research findings clearly with strong written and oral communication skills
PO-9	Be prepare for professional roles in various fields, like social services, education, policy analysis, civil services and in the development sector.

### B. Program Outcome and Course Outcome of Syllabus of Sociology (General) in Choice Based Credit System

Attainment of PO & COs of B.A. Sociology General:

### **Programme Outcomes (PO)**

Program Outcomes (POs): Program outcomes refer to the knowledge that students are expected to know at the end of the course as well as the application-based skills that they will learn. The students will acquire these outcomes as they progress through the course.

### <u>Programme Specific Outcomes (PSO) (for the students of the General Course studying of Sociology)</u>

After successful completion of a B.A. three-year general degree course with sociology as a choice, a student is expected to achieve the following outcomes.

PO-1	Develop a comprehensive understanding of fundamental sociological theories and concepts
PO-2:	Understand the structure and function of social institutions, patterns of social relationships, and social processes.
PO-3	Gain proficiency in qualitative and quantitative research methodologies.
PO-4	Design, conduct, and evaluate sociological research projects.
PO-5	Apply sociological perspectives to understand and interpret social behavior and interactions.
PO-6	Understand the impact of culture on individual and collective behavior.





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PO-7	Improve written and oral communication skills through presentations, essays, and discussions.
PO-8	Enhance problem-solving skills by applying sociological knowledge to address real-world issues.
PO-9	Prepare for diverse career opportunities in fields such as social services, education, public policy, and community development.



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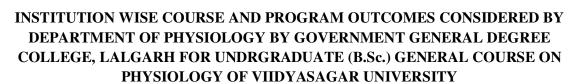
# Department of Botany, Govt. General Degree College, Lalgarh, Jhargram, W.B. B.Sc. (General Botany) under CBCS system: Attainment of PO & COs of B.Sc Botany General:

PROGRAM OUTCOME (PO):-

- PO1. Understand the nature and basic concepts of biodiversity (Viruses, bacteria, algae, fungi, bryophytes, pteridophytes, lichens, mycorrhizae and gymnosperms), cell biology, genetics, molecular biology, anatomy, morphology, biochemistry, plant physiology, taxonomy and ecology of plants.
- PO2. Students learn to carry out practical work in the field as well as in the laboratories, sometimes at other institutes' laboratories, gain skills and proficiency in Interpreting plant morphology and anatomy, Plant identification etc.
- PO3. Identify the taxonomic position of plants, formulate the research literature and analyses the plants with substantiated conclusions using first principles and methods of nomenclature and classification in Botany. Sometimes directly related to research methodology and applied aspects like floriculture, bioinformatics and nursery and gardening.
- PO4. Identify problems and independently propose solutions using creative approaches, acquired through interdisciplinary experiences, and a depth and breadth of knowledge/expertise in the field of Plant Identification.
- PO5. Demonstrate hands on skill in the experimental techniques and methods of analysis in various fields of Botany like ethnobotany, economic botany, bioinformatics, herbal technology, mushroom culture technology, biodiversity and human welfare, medicinal botany etc.



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### 3-YEAR UG (CBCS) PHYSIOLOGY (GENERAL) COURSE

Attainment of PO & COs of B.Sc Physiology General:

### **PROGRAMME SPECIFIC OUTCOMES:**

Programme specific outcomes of Physiology are designed to ensure that students gain a comprehensive understanding of the subject matter and develop the necessary skills and competencies for their future careers or further studies. Some common program-specific outcomes for the study of physiology are:

- **↓** Understanding of physiological principles: Students should demonstrate a thorough understanding of the fundamental principles and concepts in physiology, including cellular physiology, organ systems, and the integration of physiological processes.
- ♣ Knowledge of anatomy and function of human systems: Students should be able to identify and describe the structure and function of the major organs and systems in the human body like cardio-respiratory, neural, renal, endocrine, reproductive, endocrine system etc. with particular emphasis on human, to understand how these separate systems interact to yield integrated physiological responses and maintain internal stability. i.e., homeostasis.
- ♣ Application of physiological concepts: Students should be able to apply physiological knowledge to explain and analyze biological phenomena, disease processes, and responses to various stimuli.
- ↓ Laboratory and research skills: Students should be proficient in conducting laboratory experiments, data collection, and data analysis relevant to physiology. They should understand research methodologies and be able to critically evaluate scientific literature.
- ♣ Concept of instrumentation: To develop the ability to use the principles of the scientific method and have concepts of microscopy, separation techniques, principle of spectrometry, principle of ECG, imaging techniques used in modern medical sciences –CT scan, MRI, PET scan, WBGT techniques, principle of sound level meter, digital pH meter, Spectro colorimeter etc.
- ♣ Problem-solving abilities: Students should develop the capacity to analyze and solve physiological problems, both theoretical and practical, using appropriate scientific reasoning and evidence-based approaches.





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**Communication skills:** Students should be able to effectively communicate physiological concepts and research findings through oral presentations, written reports, and scientific publications.

**Integration of interdisciplinary knowledge:** Physiology is closely related to other fields of science, such as anatomy, biochemistry, biophysics, pharmacology, and neuroscience, biostatistics, chronobiology, ergonomics etc . Students should be capable of integrating knowledge from these disciplines to gain a holistic understanding of physiological processes.



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### Government General Degree College, Lalgarh Department of Zoology

# Programme Outcomes Under CBCS Bachelor of Science General in Zoology

Attainment of PO & COs of B.Sc Zoology General:

### Programme Outcomes of B.Sc General in Zoology

After successful completion of a B.Sc. three-year-degree course (General) in Zoology, a student is expected

to achieve the following outcomes.

- 1. A student having Zoology as a general subject will be able to understand the vastness of the diversity
  - of animals.
- 2. They will understand the utility of classification through study of systematics.
- 3. They will be able to understand the origin & evolution of life and can identify and classify different

chordate and non-chordate animals.

4. Understand the fundamentals of animal biology, physiology, biochemistry, genetics, cell biology,

endocrinology, developmental biology, parasitology, immunology, vector biology, economic

perspectives like apiary, sericulture, aquaculture etc. and medical diagnostic techniques.

5. The different cell types of different animals with basic knowledge of physiology will enhance the

understanding level of adaptation.

6. They will be more concerned about the recent environmental problems, and can understand the

importance of biotechnology as an applied field from the study of genetics and developmental

biology.

7. The scope of the subject through research and applied field will be also open to them.

Officer-in-Charge
Government General Degree College, Lalgarh
Lalgarh, Jhargram, 721516