

## **Program Specific Outcomes (Session: 2022-2023)**

### **Program Specific Outcomes of all UG courses:**

#### **Program Specific Outcome of Mathematics**

The Program enables the students

- To acquire good knowledge and understanding in advanced areas of mathematics.
- To Formulate and develop mathematical arguments in a logical manner.
- To prepare themselves for tackling different problems and to understand and correlate them with underlying fundamental mathematical principles.
- To assimilate the knowledge of mathematics that is applied to any other branch of science in everyday use.

#### **Program Specific Outcome of Physics**

The Program enables the students

- To acquire basic knowledge in physics, including the major premises of classical mechanics, quantum mechanics, electromagnetic theory, electronics, optics, special theory of relativity and modern physics.
- To analyze physical problems and develop correct solutions using natural laws.
- To design and conduct experiments demonstrating their understanding of the scientific method and processes.
- To discover the concepts of physics in other disciplines such as mathematics, computer science, engineering, and chemistry.
- To realize and develop an understanding of the impact of physics and science on society.

### **Program Specific Outcome of Chemistry**

The Program enables the students

- To become familiar with the different branches of chemistry like organic, inorganic, physical, environmental, solid state, pharmaceutical, fuel, nano and green chemistry.
- To get practical knowledge about qualitative and quantitative analysis of chemicals in laboratories and to acquire the ability to synthesize, separate and characterize compounds using laboratory and instrumentation techniques.
- To develop problem solving skills
- To understand the causes of environmental pollution and can open up new methods for environmental pollution control.

### **Program Specific Outcome of Zoology**

- Understand the nature and basic concepts of cell biology, genetics, taxonomy, physiology, ecology and applied Zoology.
- Analyze the relationships among animals with their ecosystems.
- Perform procedures as per laboratory standards in the areas of Taxonomy, Physiology, Ecology, Cell biology, Genetics, Applied Zoology, Clinical science, tools and techniques of Zoology, Toxicology, Sericulture, Biochemistry, Fish biology, Immunology and research methodology.

### **Program Specific Outcome of Botany**

- Obtain strong foundation in classical botany, interdisciplinary subjects such as Agriculture microbiology, Bioinformatics, Biostatistics, Botanical pharmacy, Organic farming and Marine ecology; and advance topics in Plant

Biotechnology, Cell and Molecular biology, Biochemistry and Bioinstrumentation.

- Understand the importance of plants ,their diversity and its conservation.
- Achieve knowledge of pure and applied botany.
- Understand contribution of botany in increase and improve our supply of medicines, food, fibers and other plant products.
- Understand health and environmental protection and to solve the pollution problems.

### **Program Specific Outcome of Microbiology**

- A general course emphasizing distribution, morphology and physiology of microorganisms in addition to skills in aseptic procedures, isolation and identification. This course also includes sophomore level material covering immunology, virology, epidemiology and DNA technology.
- Students will be able to acquire, articulate, retain and apply specialized language and knowledge relevant to microbiology.
- Students will acquire and demonstrate competency in laboratory safety and in routine and specialized microbiological laboratory skills applicable to microbiological research or clinical methods, including accurately reporting observations and analysis.
- Students will communicate scientific concepts, experimental results and analytical arguments clearly and concisely, both verbally and in writing.

### **Program Specific Outcome of Nutrition**

- Able to provide nutrition counseling and education to individuals, groups, and communities throughout the lifespan using a variety of communication strategies.

- Able to apply technical skills, knowledge of health behavior, clinical judgment, and decision-making skills when assessing and evaluating the nutritional status of individuals and communities and their response to nutrition intervention.
- Students can implement strategies for food access, procurement, preparation, and safety for individuals, families, and communities.
- Apply food science knowledge to describe functions of ingredients in food.

### **Program Specific Outcome of Computer Science**

- Able to acquire adequate knowledge in core areas
- Possess skill sets in programming
- Exhibit a range of transferable skills for employment
- Able to groom themselves to be future technocrats
- Imbibe societal responsibility

### **Program Specific Outcome of BCA**

- Able to gain knowledge and skill set in applying core concepts
- Able to analyze current and future trends to solve problems
- Become competent for higher education, IT and ITES
- Develop societal responsibility
- Employability readiness in various sectors

### **Program Specific Outcome of Philosophy**

The Program enables the students

- \* To acquire knowledge about Philosophy including its different branches like Ethics, Metaphysics, Psychology, Logic etc.

- \* To become familiar with the Philosophy of different Indian and western Philosophers.
- \* To develop logical reasoning.
- \* To develop ethical sense.
- \* To become familiar with social and Political Philosophy.

### **Program Specific Outcome of English:**

PSO1: Understand the History of English Literature and Social, political History of Great Britain.

PSO2: Understand literary texts of English from Anglo-Saxon to Modern period.

PSO3: Analysing seminal texts of World Literature.

PSO4: Analysing seminal texts of Indian Writings in English.

PSO5: Understanding different Social Movements and their application in literary texts.

### **Program Specific Outcome of Bengali Language & Literature:**

The programme enables the students

- To be aware of the origin of our language, nation, literature and heritage
- To express anything in a fluent & correct language
- To criticise literary pieces
- To collect & analyse linguistic formats
- To understand & classify folklores.

### **Program Specific Outcome of Sanskrit:**

- PSO 1: Understand the language, and basic of it and its grammar.
- PSO 2: Analyse Epic, specially Indian ancient Epic- Ramayana and Mahabharata.
- PSO 3: Determine Prosody in the light of ‘ Chhandamanjari’.
- PSO 4: Understand Drama through Dramaturgy (Sahitya Darpan 6<sup>th</sup> Chapter).
- PSO 5: Analyse History of Sanskrit Literature with modern Indian Language.
- PSO 6: Understand Sanskrit grammar: General grammar, Karaka and Samas.
- PSO 7: Understand Indian Polity: Specially Arthasashtra and Manusamhita.
- PSO 8: Analyse different Linguistic law: Grim, Grassman, Verner etc. Understand Linguistics.
- PSO 9: Analyse Ancient Indian Literature and develop understanding of Veda, Vedic Literature, The Bhagwat Gita (Karmayoga).
- PSO 10: Develop writing skill of students through script writing.
- PSO 11: Understand poetics through Sahitya Darpan, Kavya prakash, determine Alankara.
- PSO 12: Understand Indian culture and analyse its reflection in Sanskrit Literature.
- PSO 13: Understand methodology: with special reference Pouranic Literature.
- PSO 14: Analyse Indian philosophy: Tarkasangrah, Yogsutra.
- PSO 15: Understand Indian social institution.
- PSO 16: Understand environment need of its awareness in Sanskrit Literature.

## **Program Specific Outcomes of History**

The Program enables the student

- To develop a sound and objective understanding of the political, economic and societal development through the ages, from the ancient to the contemporary times.
- To not just confine themselves to the study of History, but to the study of historian as well so as to form a clear idea of the perspective from which the events have been described by a particular historian.
- To study events happening around the world and its impact on our country and human lives in general.
- To connect the past with the present and understand how a particular happening/ problem of the present has its root in the past.

## **Program Specific Outcome of Sociology**

The program enables the students

- To acquire basic knowledge of sociological terminology and relations with other social sciences.
- To get basic understanding of social institution, social process and social structure.
- To develop skill for better understands of social problems.
- To prepare themselves for conducting field work.

## **Program Specific outcome of Hindi Language and Literature**

The program enables the student

- To be aware of the origin of our language, nation, literature and heritage
- To express anything in a fluent and correct language
- To criticize literacy pieces
- To collect and analyze linguistic formats.

## **Program Specific outcome of Geography**

The Program enables the students

- To become familiar with the different branches of geography like physical, human, social, economic, regional, environmental, population, urban, agricultural, settlement, resource, political and cultural geography.
- To get theoretical and practical knowledge about qualitative and quantitative geographical data which make them able to synthesize and analyze the different spatial characteristics of earth surface.
- To acquire basic knowledge on remote sensing and GIS.
- Finally, the students will become true geographers in areal differentiation of things and phenomena over space, equipped with spatial analysis tools and techniques, expert in land and socioeconomic surveys with great geographic intellect.

## **Program Specific Outcome of Economics:**

The Programme enables the students:

- To acquire good knowledge and understanding in key areas of economics
- To analyze economic problems and develop correct solutions using various theories and laws.
- To develop problem solving skills.
- To design and conduct market surveys demonstrating their understanding of the economical tools and processes.

## **Program Specific outcome of Political Science**

This program has been designed

- To provide basic knowledge on the theories of Political Science.

- To develop an objective understanding of the political systems of the major countries around the world.
- To impart basic knowledge of the nature of the politics of both the pre-independent and post independent India.
- To provide detail knowledge of Indian Constitution and the history of its making.
- To develop general awareness among the students regarding international politics as well as public administration.
- To expose students to a wide array of normative issues, theories as well as practical challenges.
- To enable students to engage critically and constructively with the challenges of an increasingly global political context.

Thus with the completion of this program a student will have basic knowledge of the discipline of political science and will be able to understand Indian and global politics as well as public administration especially in West Bengal.

### **Program Specific Outcome of Commerce**

The program enables the students:

- To acquire knowledge about the different branches of accounting, their objectives, advantages and disadvantages and their application in the practical world.
- To develop problem solving skills.
- To become familiar with the basic knowledge of finance and its management.
- To gain the knowledge of the theories and practices of management and prepare them to serve as good managers.
- To instill in students the basic knowledge and fundamentals of commerce and business which would be beneficial for them to comprehend, analyse

and evaluate the current economic/business scenario of the country and the world at large.

- To develop in students the capability to transform theoretical and conceptual knowledge into practical problem-solving approach using critical thinking.
- To develop skills this would help them undertake research and innovations in commerce and would enhance their employability.

### **Program Specific Outcome of PG course:**

#### **Program Specific Outcome of Political Science:**

The program enables the students:

1. To provide basic knowledge regarding concepts, theories, issues and debates that characterizes the study of contemporary Political Science.
2. To identify probable areas of future research and enhance skills.
3. To initiate intellectual urge among the students for understanding most pressing political issues in terms of historical, comparative, theoretical and policy oriented perspectives.