



**BELDA COLLEGE**  
**Belda, Pachim Medinipur, 721424**

**DEPARTMENT OF PHYSIOLOGY**

**PROGRAMME OUTCOME (PO): BACHELOR OF SCIENCE: GENERIC**

<b>PO</b>	<b>Summary</b>	<b>Description</b>
PO1	Knowledge of Specialized Discipline	<ul style="list-style-type: none"><li>➤ To acquire knowledge specifically systems related to human physiology.</li><li>➤ Students will be able to demonstrate a proficiency in overall biology.</li></ul>
PO2	Sound Comprehension & Communication Skills	<ul style="list-style-type: none"><li>➤ Students will be able to acquire knowledge and skill to communicate biological concepts and interpretations to different audiences orally and in writing.</li></ul>
PO3	Critical Reasoning & Problem Analysis	<ul style="list-style-type: none"><li>➤ Students will be able to analyze different quantitative biological problems with proper reasoning.</li><li>➤ Students will be able to acquire knowledge of giving answer with critical reasoning.</li></ul>
PO4	Develop Interdisciplinary Knowledge	<ul style="list-style-type: none"><li>➤ The biological sciences have long benefited from the intellectual and pragmatic input of ideas and techniques from other disciplines, including medicine, chemistry, engineering, and mathematics.</li><li>➤ They acquire common knowledge of interdisciplinary subjects.</li></ul>
PO5	Socio-Cultural Applicability	<ul style="list-style-type: none"><li>➤ Students will be able to apply the acquired knowledge to improve the public health in the community for societal benefit.</li></ul>
PO6	Ethical Values	<ul style="list-style-type: none"><li>➤ Student will develop the culture of value-based thinking, and lead a sound value based ethical life.</li><li>➤ They can apply ethical principles and commit to professional ethics and responsibilities in delivering his duties</li></ul>
PO7	Research & Life-long Learning	<ul style="list-style-type: none"><li>➤ Students will be able to demonstrate a depth knowledge within their area of study and a breadth of knowledge across the field of biology. They can apply their knowledge for research which will lead to life-long learning.</li><li>➤ Students will be able to design and complete a research study and/or scientific experiments.</li></ul>
PO8	Familiarity with Recent Developments	<ul style="list-style-type: none"><li>➤ Students will get recent development with regards to practical knowledge and theoretical aspects</li></ul>
PO9	Ability in Creative Skills	<ul style="list-style-type: none"><li>➤ Knowledge on recent development and value based study will help student to develop creative skill within their field.</li></ul>
PO10	Environmental Awareness & Sustainability	<ul style="list-style-type: none"><li>➤ To make students aware with the importance of environmental crisis and its requirement. They can give their input to maintain environmental sustainability.</li></ul>



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**PROGRAMME SPECIFIC OUTCOME (PSO):: B. Sc PHYSIOLOGY GENERIC**

**PSO 1:** The students shall have an enhanced knowledge of integrated physiological responses to challenges such as exercise; fasting and ascent to high altitude will be gained along with their failure.

**PSO 2:** Students should have comprehensive knowledge on dietary plan and diet survey and be able to perform, analyze and report on human blood, physical activity of human subject, preparation of histology slides and preservation of organs and able to recognize and identify principal tissue structures

**PSO 3:** Students will able to work in research laboratories for physiological studies of normal biological function.

**PSO 4:** The study of physiology encompasses a wide array of other disciplines, such as neurophysiology, pharmacology, clinical scientist, medical sales representative, physiotherapist, secondary school teacher, therapeutic radiographer.

**PSO 5:** Physiology opens up many careers in science and healthcare centre, secondary schools, colleges/universities. They can work as health professionals, clinical physiologists, and pharmaceutical & biotechnology companies and also in private sector hospitals, medical centers and healthcare organizations etc.



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**DEPARTMENT OF PHYSIOLOGY**  
**COURSE OUTCOME (CO)**  
**(FOR THE YEAR 2016-2017)**  
*(As per the new syllabus of VU)*

PAPER NAME	COURSE	OUTCOMES
<b>1<sup>st</sup> Sem</b> <b>Paper GE-1</b> <b>(Theory + Practical)</b>  (Blood and Immune System and Cardiovascular system)	<b>CO 1</b>	<b>CO1.1:</b> To get an enhanced knowledge and appreciation of mammalian blood physiology. <b>CO1.2:</b> To gather comprehensive knowledge on immunological activity at normal and pathophysiological condition. <b>CO1.3:</b> To get basic knowledge about defence mechanism of our body. <b>CO1.4:</b> To get an overview of major organs and vessels of the cardiovascular system and its functions. <b>CO1.5:</b> To get a detailed knowledge on physiological structure and function along with normal electrical activity of heart as well as pathological condition of heart. <b>CO1.6:</b> To learn about the various experimental techniques related to blood analysis, along with physical performance determination of a healthy subject.
<b>2<sup>nd</sup> Sem</b> <b>Paper GE- 2</b> <b>(Theory + Practical)</b>  (Developmental Biology/Embryology)	<b>CO2</b>	<b>CO2.1:</b> Be able to list the types of characteristics that make an organism ideal for the study of developmental biology. <b>CO2.2:</b> To get details of reproductive biology in the mammalian system. <b>CO2.3:</b> To learn the process of organ development of mammalian system. <b>CO2.4:</b> To learn histology of slides preparation and preservation of organs.
<b>3<sup>rd</sup> Sem</b> <b>Paper GE3</b> <b>(Theory + Practical)</b>  (Community and Public Health)	<b>CO3</b>	<b>CO3.1:</b> To be able to gain knowledge and skill on health education, health plan, and programs for individual and also for community. Students will able to implement Health Education Strategies and Develop plans for evaluation and research of public health. <b>CO3.2:</b> To be able to explain the history and philosophy of public health as well as its core values, and functions across the globe and in society. <b>CO3.3:</b> To identify the methods, and tools of public health data collection, its use, and also will understand



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		<p>analysis and why evidence-based approaches are an essential part of public health practice.</p> <p><b>CO3.4:</b> To identify the basic processes, approaches, and interventions that addresses the major health-related needs and concerns of populations.</p> <p><b>CO3.5:</b> To apply the principles of project implementation, including planning, assessment, and evaluation in organizational and community initiatives.</p>
<p><b>4<sup>th</sup> Sem</b> <b>Paper GE4</b> <b>(Theory+Practical)</b></p> <p>(Excretory System &amp; Body Temperature Regulation)</p>	<p><b>CO4</b></p>	<p><b>CO4.1:</b> To be able to understand the role of the excretory system on Homeostasis, also the excretory products of the skin and urinary system</p> <p><b>CO4.2:</b> To explain the role of the kidney regulating the body fluids and chemistry of the body</p>