

Programme Specific/ Learning Outcome:

PHYSIOLOGY HONOURS:

1. Core competency:

- Students will acquire competency in core Physiological dynamics of lively events like circulation, respiration, excretion, electrophysiology, nervous coordination, heart and the internal homeostasis of body fluids including the role of hormones in expressing the sexual dimorphism and alterations of metabolic patterns.
- Students will be able to identify evidence based disease oriented normal and pathological alterations.
- Students will be able to use evidence based comparative physiological approach to explain the development of fetus, understand the genetic diversity in human population across the Earth.
- Students will be able to explain various plant processes and functions, metabolism, concept of gene, genome and how organism's function is influenced at the cell, tissue and organ level.
- Students will be able to understand adaptation and acclimatization to various environmental conditions, development and behavioural changes in different forms of life.
- The understanding of networked metabolism in human system, tracing the mechanism of energy generation through nutrient intake from food – their assimilation, digestion and metabolism is expected from the students.
- Students will be able to demonstrate the experimental techniques and methods of their area of specialization in Physiology.

2. Analytical ability:

- Students will be able to demonstrate the knowledge in understanding research and addressing practical problems.
- Application of various scientific methods to address different questions by formulating the hypothesis, data collection and critically analyze the data to decipher the degree to which their scientific work supports their hypothesis.

3. Critical Thinking and Problem Solving Ability:

An increased understanding of fundamental concepts and their applications of scientific principles is expected at the end of this course. Students will become critical thinkers and acquire problem solving capabilities.

4. Digitally Equipped:

Students will acquire digital skill and will be able to integrate the fundamental concepts with modern tools.

5. Ethical and Psychological Strengthening:

Students will also strengthen their ethical and moral values and shall be able to deal with psychological weaknesses.

6. Team Player:

Students will learn team workmanship in order to serve institutions, industry and society efficiently.

7. Independent Learner:

Apart from the subject specific skills, generic skills, especially in Human Physiology, the programme outcome would lead to gaining of knowledge and skills for further higher studies, competitive examinations and employment.

Course Outcome/ Course Learning Outcome:

The course level learning shall be reflected as programme level learning. The core courses shall be the backbone of this framework whereas discipline electives, generic electives and skill enhancement courses would add academic excellence in the subject together with multi-dimensional and multi-disciplinary approach.

In course learning outcomes, the student will attain subject knowledge in terms of individual course as well as holistically.

PHYSIOLOGY HONOURS:

Program me outcome	CC1	CC2	CC3	CC4	CC5	CC6	CC7	CC8	CC9	CC10	CC11	CC12	CC13	CC14
Core competence	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Critical thinking	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Analytical reasoning	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Research skills	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Team work	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

Programme outcome	Discipline Specific Elective					
	DSE1	DSE2	DSE3	DSE4	DSE5	DSE6
Additional Academic Knowledge	Yes	Yes	Yes	Yes	Yes	Yes
Problem Solving	Yes	Yes	Yes	Yes	Yes	Yes
Additional Analytical Skill	Yes	Yes	Yes	Yes	Yes	Yes
Additional Research Skills	Yes	Yes	Yes	Yes	Yes	Yes

PHYSIOLOGY GENERAL:

Programme outcome	Generic Elective General Papers			
	GE1	GE2	GE3	GE4
Additional Academic Knowledge	Yes	Yes	Yes	Yes
Exposure Beyond Discipline	Yes	Yes	Yes	Yes
Problem Solving	Yes	Yes	Yes	Yes
Analytical reasoning	Yes	Yes	Yes	Yes

Programme outcome	Ability Enhancement Compulsory Course	
	AECC 1	AECC 2
Additional Academic Knowledge	Yes	NA
Psychological Skills	No	NA
Problem Solving	Yes	NA

Programme outcome	Skill Enhancement Course	
	SEC 1	SEC 2
Additional Knowledge Enhancement	Yes	Yes
Exposure Beyond Discipline	Yes	Yes
Analytical reasoning	Yes	Yes
Digital Literacy	Yes	Yes
Moral and Ethical Awareness	Yes	Yes