

List of Ph.D. Course work subjects that can be offered under
Physiology Group from 2026

Physiology							
Group I		Group II		Group III		Group IV	
Subject Code	Name of the subject	Subject Code	Name of the subject	Subject Code	Name of the subject	Subject Code	Name of the subject
PHPHS101	Advanced Medical Physiology	PHPHS201	Autonomic & Reproductive Physiology				

PHPHS101: ADVANCED MEDICAL PHYSIOLOGY

Course Objectives:

To strengthen advanced concepts in integrative physiology and provide a physiological basis for disease mechanisms.

- Organization and regulation of the autonomic nervous system
- Neuroendocrine integration and hypothalamic–pituitary axes
- Cardiovascular regulation and autonomic control
- Metabolic physiology and insulin resistance
- Reproductive physiology and endocrinology
- Stress physiology
- Gender-specific physiological adaptations
- Systems physiology and homeostasis

Course Outcomes:

The scholar will develop the ability to integrate physiological systems and apply concepts to clinical and translational research.

PHPHS201: AUTONOMIC AND REPRODUCTIVE PHYSIOLOGY

Course Objectives:

To provide specialized training aligned with the scholar's area of research in autonomic and reproductive physiology.

- Autonomic nervous system biomarkers
- Heart rate variability (HRV) and blood pressure variability (BPV)
- Baroreflex sensitivity and vascular reactivity
- Non-invasive autonomic function tests
- Pathophysiology of Polycystic Ovary Syndrome (PCOS)
- Autonomic–metabolic–endocrine interactions
- Influence of lifestyle factors on autonomic regulation

Course Outcomes:

The scholar will acquire proficiency in autonomic assessment techniques and their application in reproductive and metabolic disorders.