



**BLDE  
(DEEMED TO BE UNIVERSITY)**

Declared as Deemed to be University u/s 3 of UGC Act, 1956

The Constituent College

**SHRI. B. M. PATIL MEDICAL COLLEGE, HOSPITAL & RESEARCH CENTRE, VIJAYAPURA  
M.Sc. MEDICAL PHYSIOLOGY**

**Preamble:**

M.Sc Medical Physiology will be a three years course for graduates in the biological sciences that should facilitate them for teaching and research in health education sciences.

**Duration:**

Full time three years course.

**Goal:**

The goal of postgraduate M.Sc in medical sciences shall be:

1. To produce competent medical teachers.
2. To acquire scientific knowledge of research and principles of research methodology
3. To acquire the basic skills in teaching of the medical and Allied health courses

**Objectives:**

At the end of the M.Sc postgraduate training in the concerned subject the student shall be able to:

1. Demonstrate competence in basic concepts of research and be able to produce & analyze Research articles.
2. Develop excellent skills in the teaching of medical and paramedical health professionals.
3. Acquire the experimental skills necessary to analyze problems in their respective discipline.
4. Practice efficiently various investigative procedures backed by scientific knowledge including basic sciences and skills.
5. Get expertise in his/her field of interest.

  
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## **Learning Objectives:**

At the end of training course M.Sc student should have complete knowledge of the body with respect to.

### **I. Cognitive Domain:**

All the systems of the body should be studied with respect to:

1. Historical aspect
2. Evolution and development
3. Comparative physiology
4. Structure-gross and electron microscopic and functions at cellular level
5. Qualitative and quantitative aspects.
6. Regulating mechanisms
7. Variations in physiological and pathological conditions
8. Applied physiology
9. Recent advances

### **II. Psychomotor Domain:**

1. To perform human and animal (mammalian, amphibian) experiments. Hematology, Experiments based on biophysical principles.
2. To acquire history taking and clinical examination skills.

### **Affective domain:**

1. Students should develop communication skills to interact with Students, colleagues and other staff members.
2. They should be able to work as a member of a team to carry out teaching as well as research activities.
3. They should have right attitude toward teaching profession.

### **Course Content:**

#### **1<sup>st</sup> Year**

1. Student should attend all UG lectures in Physiology
2. Student should attend all demonstrations of practical's and perform all UG practical's.
3. Visit to library for review of literature to choose topic for the dissertation
4. Attend and present seminar/Journal club as per the schedule.
5. Carryout research work under Guide ship

### **Teaching- learning methods**

The teaching –learning methods of preliminary year will consist of theory classes, practical classes, small group discussions. The students will rotate among the departments for practical sessions and demonstrations. Assessment will be through tests.

  
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