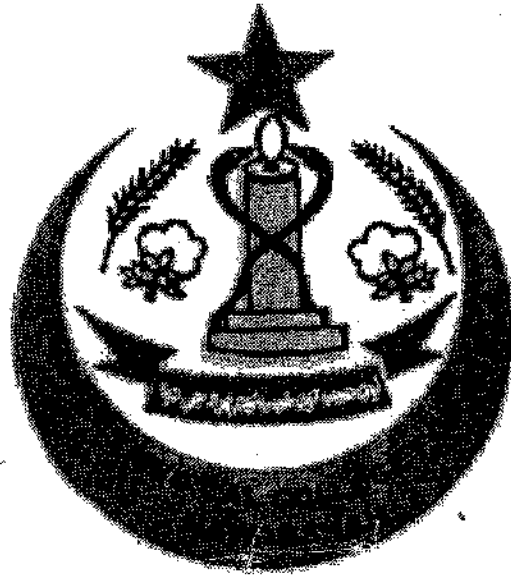


CURRICULUM OF POSTGRADUATE COURSE

M.PHIL.IN PHYSIOLOGY (THREE YEARS)



**DEPARTMENT OF PHYSIOLOGY**  
**BASIC MEDICAL SCIENCES**  
**PEOPLES UNIVERSITY OF MEDICAL & HEALTH SCIENCES FOR WOMEN**  
**SHAHEED BENAZIRABAD**

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## **COURSES OBJECTIVES IN PHYSIOLOGY**

**For Postgraduate (M.Phil.) students**

### **1. AIMS AND OBJECTIVES**

1. To produce highly qualified physiologists who possess through knowledge Of subject along with the laboratory technique in related fields.
2. To equip them with modern communication and teaching skills
3. To make them capable of planning and conducting research in the updated field of the subject .
4. To enhance their teaching skills and methods
5. To provide feed back for quality assurance of academic programs.
6. To train them in construction of SBQ's (Single Best Questions), and SEQ's (Short Essay Questions) and OSPE stations.
7. To train these postgraduate students in presenting seminars and papers in symposia by presenting journal clubs during the course work.
8. To help them in writing research papers, review articles reports in the HEC (Higher Education Commission ) recognized journals.

## 2. ADMISSION PROTOCOL

1. The candidate should be medical graduate with MBBS, degree from College /University recognized by PDMC.
  2. Valid registration with PMDC as medical practitioner.
  3. One year resident house job in recognized teaching institution.
  4. Admission is made as per rules of postgraduate committee of PUMHS, SBA
  5. Eligible candidates will 1<sup>st</sup> appear in written test. After securing 50% Marks, will be allowed to appear in interview.
  6. The admission will be on merit basis, Qualifying the admission test is no guarantee to admission which will be determined on the basis of marks obtained in entry test, marks obtained in MBBS and other criteria.
  7. After selection the candidate is to be enrolled with PUMHS, SBA.
  8. Duration of M.Phil. Physiology course is 03 years.
  9. M.Phil physiology course was recommended in meeting of board of studies in physiology and approved by postgraduate education committee PUMHS, SBA held on
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### **3. COURSE OUTCOMES**

The postgraduate /trainee after completing the M.Phil should.

1. Possess the depth of knowledge of physiology & allied subjects
2. Possess adequate knowledge of Associate Clinical setting
3. Be able to handle independently problem in the field of medicine.
4. Be competent to teach students of undergraduate medical, dental and allied sciences.
5. Be able to design and implement teaching schedule in the subject.
6. Be able to demonstrate the practical and laboratory techniques proficiently.
7. Be able to plan and conduct research projects in the subject independently.
8. Be capable of finding solutions to practical situations.
9. Be able to write research articles, review articles and case report.

#### **4. INTRODUCTION OF COURSE**

There is scarcity of basic sciences teachers through out the country. The program Is being introduced to overcome this problem. It is also needed for improving the quality of teachers and standard of education.

#### **AIMS & GOALS**

To Produce highly qualified personals in the field of physiology who have through knowledge of the subject and laboratory techniques , communication and teaching skills , and are capable of planning and conducting research projects for findings solutions of practical problems.

#### **SCOPE OF THE COURSE**

The postgraduate after completing the course successfully can be inducted as Assistant Professor in Medical Universities and Medical College and can also be engaged in research institutes and laboratories.

#### **GENERAL OBJECTIVES OF THE TRAINING PROGRAMME**

The trainee at the end of the course will be able to:

- Demonstrate in depth the knowledge of and allied subjects
- Have good command over biochemical minor subjects for research projects
- Teach students of medical dental and allied subjects.
- Demonstrate proficiency in all relevant laboratory techniques employed
- Plan and conduct Biomedical research projects independently
- Apply theoretical concepts for finding solutions of practical problems.
- Handle cases related to Medicine.

Components of the subjects:

The course shall comprise of one major subjects of physiology & two minor subjects to be chosen from the following list.

Histology  
 Biochemistry  
 Pathology  
 Microbiology  
 Pharmacology

**DURATION OF COURSE**

This is a full time Three years course.

Study programme for M.Phil. Physiology

1. Degree Offered: Master in Physiology (M.Phil.) in human Physiology

2. Duration : Three Academic years.

3. Aims and Objects:

To prepare adequately qualified persons in the field of human Physiology .who be able to full the need of teaching the subject of human Physiology to Undergraduate and Postgraduate students and independently carry out research in the various discipline of the subject.

Teaching Methods: All courses would be supported by:

4.

4.1 Lectures: Faculty members will deliver the lectures to the students addressing the core text of various components of human physiology and relevant research methodology. Candidates in turn will be evaluated during delivering the basic sciences lectures to undergraduate and postgraduate students of various subjects.

4.2 Practical :Under the supervision of faculty members, practical training will be provided facilitating and upgrading the expertise the candidate in the relevant courses of the subject. For the purpose the department of physiology would be provided collaboration and support from the labs of other departments , such as Anatomy ,pathology ,Radiology and biochemistry e.t.c.

4.3 Tutorial /seminar and journal Club: Selected topics in various discipline that are complicated, debatable and need further elucidation would be discussed , and the areas of active research and future demands would be sought by discussion .Original papers indicating the new areas of global research and latest information journals would be discussed.

4.4 Workshops: Will be conducted to introduce the ongoing development in the methodologies .Eminent professors and faculty of different institutions , would be offered to participate in the programs.

4.5 Research Protocol (Synopsis) : By the end of the first year the Candidate has to submit a synopsis of the research theisis. The topic of the research has to be chosen with the guidance and supervisor. Supervisor would continuously monitor the candidate's research progress and thesis writing.

**5. COURSE STRUCTURE:****5.1.**

**A-----Physiology as a major Subject:-1(Part-I)** Duration 01 year

- a. Course 102      General physiology, cell, Nerve & Muscle Blood physiology.
- b. Course 103      C.V.S & Respiratory system

**B-----Minor Subject: I-Course 104**

Choice of any one Minor (List of approved minor subjects given below)

Anatomy  
Biochemistry

Minor Subject: I- Course 104. Will be selected be candidate with the consent of supervisor as per requirement of topic of research wise.

The last week of the course shall be reserved for internal evaluation, which will consist of written skill, SBQ's test: and candidate has to obtain a satisfactory grade (60 %) in each course, else the candidate will have take a make up test.

**5.2**

**A-----Physiology as a major subject (Part-II)** Duration of 01 year

- c. Course 105      Endocrine Reproductive Excretory & G.I.T system
- d. Course 106      CNS & Special Senses

Pharmacology  
Pathology  
Microbiology

The last week will be reserved for written internal test.  
Each candidate has to obtain a satisfactory grade else the candidate will have to take a make up test.

**B. ---- Registration as a research scholar by submitting research protocol for approval.  
Selection of topic of the research would be with the consent of supervisor.**



After successful completion of all courses in CGPA 3.0 or more and approval of research protocol he/she will be given a research project by the supervisor.

### **5.3. Research Work and thesis writing                      Duration 01 year**

Research Work and thesis writing workshops and seminars presentations. The thesis has to be completed within the training period except in circumstances where extension is granted by ASRB ( Advance Study Research Board) upon recommendation of supervisor.

The thesis shall be submitted to the laid down criteria by the university evaluators, a seminars will be arranged by the university for successful defense of the thesis by students.

Acceptance of thesis and passing of final examination shall entitle the candidate M.Phil. Degree in human physiology.

During the research, the students has to publish at least one paper in one of the of the reputed journals and submit a copy of published paper to Board of advance studies.

Degree will be awarded after submission of paper.

On award of degree students will be eligible for direct admission in PhD

## 6. UNIVERSITY EXAMINATION:

### PATTERN OF EXAMINATION

A. First Examination after completing the course that is after one year

<b>MAJOR(PART-I)</b>	<b>NO OF QUESTIONS</b>	<b>MARKS</b>	<b>TIME</b>
Paper -I	7 <del>50</del> SBQ(one best type)	100	2 Hours
Paper -II	10 Short Essay	100	2 Hours
Practical Viva voce		200	
<b>MINOR</b>	<b>NO OF QUESTIONS</b>	<b>MARKS</b>	<b>TIME</b>
Paper -I	7 <del>50</del> SBQ(one best type)	100	2 Hours
Paper -II	10 Short Essay	100	2 Hours
Practical Viva voce		200	

### Criteria of Passing

Passing marks in each paper will be 60%

Passing marks in viva voce/ Practical will be 60%

Examination for practical and viva voce: Two Internal & Two External

B.Seconds Examination after completing course that is after 01 months of 1<sup>st</sup> Examination

Eligibility:

Every student must clear all periodic and comprehensive examination before the annual examination .

Passing marks for major / minor subjects=60%, if below 60% candidate will repeat the course

If a candidate passes in major but fails in minor , he will reappear only in the minor subjects.

If students fails in the major subjects & passes in 2<sup>nd</sup> minor subjects He /She will have to reappear in major subject.

Pattern of examination.