

UNIVERSITY OF THE PUNJAB

NOTIFICATION

401-AS-II

09-04-13

It is hereby notified that the Vice-Chancellor has, in exercise of the powers vested in him under Section 15(3) of the University of the Punjab Act, 1973 and in anticipation approval of the other relevant bodies been pleased to approve the recommendations of the Board of Studies in Medicine & Dentistry made at its meeting dated 10-08-2012 & 21-11-2012 respectively regarding Statutes Rules & Regulations and Scheme of Studies for leading to Postgraduate Research degrees of M.Phil & Ph.D Programmes in Medicine & Dentistry with affect from the Academic Session 2011-2012.

The Statutes Rules & Regulations and Scheme of Studies are attached herewith vide Annexure 'A'.

Admin. Block.  
Quaid-i-Azam Campus.  
Lahore.

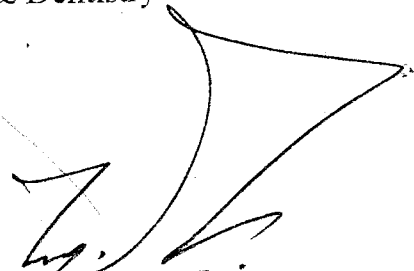
Sd/-  
Assistant Registrar (Academic)  
for Registrar

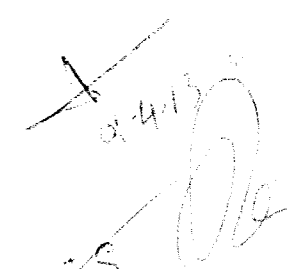
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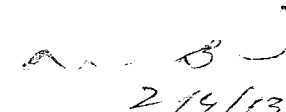
Dated: 28-3-2013

Copy of the above is forwarded to the following for information and necessary action:-

1. Pro Chancellor
2. Members of the Syndicate
3. Dean/ Convener,  
Shaikh Zayed Postgraduate Medical Institute,  
Lahore.
4. Chairperson DPCC,
5. Members of the Board of Studies in Medicine & Dentistry
6. ✓ Controller of Examinations.
7. Assistant Registrar (Statutes)
8. Secretary to the Vice-Chancellor
9. Secretary to the Registrar
10. Assistant Syllabus

  
Assistant Registrar (Academic)  
for Registrar





**Faculty of Medicine & Dentistry**

**UNIVERSITY OF THE PUNJAB**

**Requirements for the studies, and Examinations, leading  
to Postgraduate Research Degrees of M. Phil and Ph. D.  
programs of Faculty of Medicine and Dentistry, University  
of the Punjab**

**2012**

*Corrected copy; as per  
collections + guidelines of  
Chairperson DPCR  
28/2/13*

## DEFINITION OF COURSES

A research program aims to expand student's knowledge in their own field and to develop their research skills, thus enhancing their career potential. To be successful in this it is important that the student is enthusiastic about his or her field of study and the staff able to provide the necessary guidance.

The Faculty of Medicine and Dentistry, University of the Punjab offers two types of research programs leading to the advanced degrees of Master of Philosophy (M. Phil.) and Doctor of Philosophy (Ph.D.) in basic medical and dental sciences. In both cases students engage in a period of supervised research leading to the production of a thesis which is then presented for examination.

Both these degrees are offered by University of the Punjab through an M. Phil and a Ph.D.

### **Master of Philosophy (M. Phil)**

The Master of Philosophy (M. Phil) is a two-year research degree in which students undertake didactic course and supervised research leading to the production of a thesis.

The M. Phil is aimed at those who intend to pursue research and teaching careers in basic sciences of medicine and dentistry. It may also be used as a foundation to commencing a Doctor of Philosophy (PhD).

Admission requires a Bachelor degree in Medicine / Dentistry (MBBS / BDS) from the University of the Punjab, or equivalent.

## Doctor of Philosophy (PhD)

PhD programs provide training and education with the objective of producing graduates with the capacity to conduct research independently at a high level of originality and quality.

By the end of the degree program, the PhD student must be capable of conceiving, designing and carrying to completion a research program without supervision.

The purpose of the PhD is to advance knowledge and/or the application of knowledge through the preparation of a substantial piece of work which represents a significant contribution to a particular field of study.

The Doctor of Philosophy (PhD) is a research degree in which students undertake supervised research to prepare a substantial piece of work representing a significant contribution to a particular field of study, restricted to basic medical sciences or an application of the same.

The culmination of this degree is the production of a thesis. The PhD in the Faculty of Medicine and Dentistry is aimed at those who intend to pursue academic and research careers in health.

**STATUTES**  
**FOR M. Phil and PhD Courses**

## DURATION OF COURSES

The minimum duration for completion of M.Phil program shall be two years and the maximum period shall be three years. The minimum period of completion of Ph. D. program shall be three years while the maximum period shall be 5 years.

## 2. ADMISSION CRITERIA

### i. M. Phil Program

- 1 MBBS / B.D.S.
- 2 One year House Job.
- 3 NTS-Gat test (Minimum score=50)
- 4 Interview
- 5 Recommendations of the Supervisor
- 6 Preference will be given for Distinction in Professional Examinations, *Additional Experience and Published Research.*

### ii. Ph.D. Program

- 1 M. Phil/MSc/MS/MD/MDS or equivalent (18 years of education)
- 2 Subject based GRE/GAT (Minimum score=60%)
- 3 Brief Research Plan
- 4 Interview
- 5 Recommendations of the Supervisor
- 6 Preference will be given for Distinction in Professional Examinations, *Additional Experience and Published Research.*

3. LIST OF COURSES

- a) M. Phil
- b) Ph.D.

Basic Medical Sciences

- i. Anatomy
- ii. Morbid Anatomy and Histopathology
- iii. Microbiology
- iv. Physiology
- v. Biochemistry
- vi. Forensic Medicine and Toxicology
- vii. Pharmacology
- viii. Medical Virology
- ix. Immunology and Serology
- x. Hematology
- xi. Chemical Pathology
- xii. Community Medicine

Basic Dental Sciences

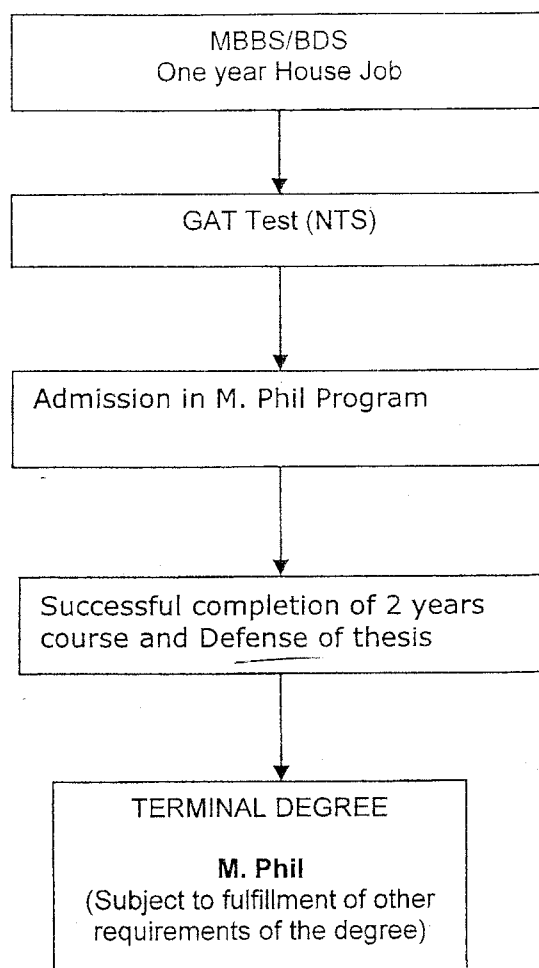
- i. Science of Dental Materials
- ii. Oral Biology
- iii. Oral Pathology
- iv. Community Dentistry

Any other subject recommended by the Board of Studies in Medicine and Dentistry.

No admission shall be given for Ph. D. in pure clinical subjects/specialties.

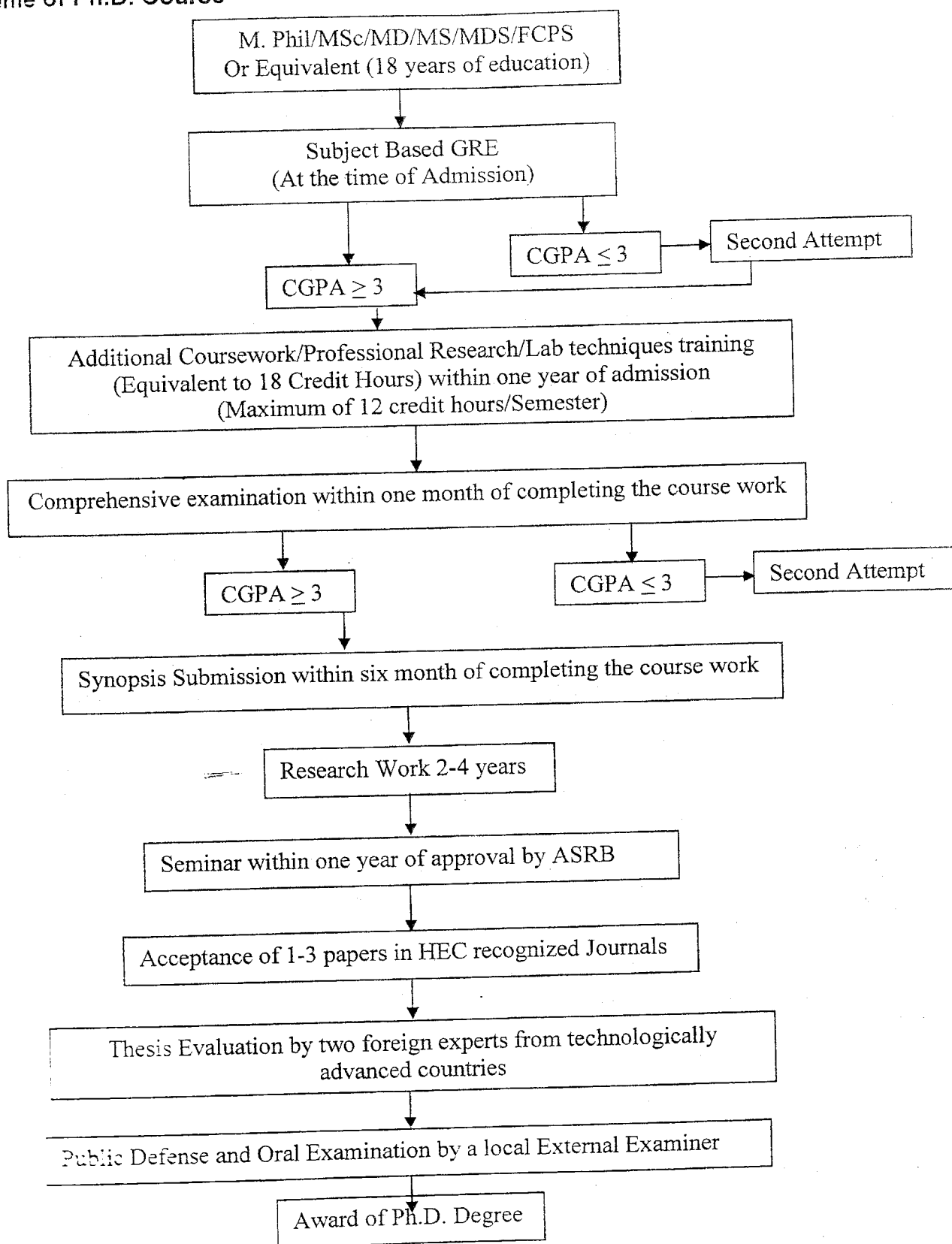
4. SCHEME OF THE COURSES

M. Phil Course





## Scheme of Ph.D. Course



## **EXAMINATIONS**

5. All examinations of M. Phil/ M. Phil leading to Ph.D. awarded by the Faculty of Medicine & Dentistry will follow the annual system of examinations.

### **a) M. PHIL. PROGRAM**

#### **Part-I Examination (After one year of education)**

- i. Paper-1 of Specialty Subject (Pass marks=60%)
- ii. Paper-2 of Specialty Subject (Pass marks=60%)
- iii. Paper-3 of Allied Subject (Pass marks=60%)

#### **Part-II Examination (Final Evaluation after two years of study)**

- i. Specialty subject based structured Viva (Pass marks=60%)
- ii. Defence of Thesis (after thesis submission within the allowed time)

### **b) PH. D PROGRAM**

#### **a. Admission requirement**

For admission into the PhD minimum CGPA 3.0 (out of 4.0 in the Semester System) or First Division (in the Annual System) in M.Phil/M.S/Equivalent degree is required.

#### **a. Subject Test**

A subject test conducted by the National Testing Service (NTS) or ETS, USA in the area of specialization chosen at the PhD level must be cleared prior to admission for the PhD Program.

a. In the case of GAT Subject test a minimum of 60% marks is required to pass the test.

b. In the case GRE subject test, the minimum score acceptable is 60% Percentile Score

c. If the Test is not available in NTS subject list, then a University Committee consisting of at least 3 PhD faculty members in the subject area and approved by the HEC will conduct the test at par with GRE Subject Test and qualifying score for this will be 70% score.

**c. Course Work**

Course work of 18 credit hours preferably in the first year is required to be completed and followed by a comprehensive examination for granting candidacy as PhD researcher.

**d. Foreign Expert Evaluation:** The Ph.D. Dissertation must be evaluated by at least two Ph.D. experts from technologically/academically advanced foreign countries in addition to local Committee members.

**e. Open Defense:** An open defense of Dissertation is essential part of PhD Program after positive evaluation.

**f. Research Paper:** Acceptance/publication of at least one research paper based on the PhD research in an HEC approved "X" category journal is a requirement for the award of Ph.D. degree

**g. Plagiarism Test:** The Plagiarism Test must be conducted on the Dissertation before its submission to the two foreign experts, as described below.

## **6. DEGREE AWARDING**

After successful completion of the course, M.Phil or Ph.D. Degrees will be awarded.

The Degree of Master of Philosophy will carry with it the title of Specialty in the parenthesis. That is M. Phil (Anatomy); M.Phil (Community Dentistry) etc.

The Degree of Doctorate of Philosophy will carry the title of the thesis at the front of the degree which will be awarded through Faculty of Medicine and Dentistry, University of the Punjab.

## 7. Academic Calendar

### M. Phil

Admission Advertisement	June / July
Candidate Assessment & Admission	June / July
Session starts	September-October
Course work	12 Months (Equivalent to 24 credit hours)
Internal evaluation	Twice in one year
Part-1 Examination	October
Synopsis Approval by Board of Studies (BOS)	November-December
Approval of Synopsis title by the Vice Chancellor	January of the following year
Duration of Research	9 months (equivalent to 6 credit hours)
Part-II Examination	October-November after two years of admission
Thesis Evaluation	With the Part-II examination or upto six months after completion of two years of the course

**REGULATIONS  
FOR STUDIES LEADING TO  
M. Phil and PhD DEGREES**

**SECTION -I**

## GENERAL INFORMATION CONCERNING M.PHIL and Ph.D. COURSES

### GENERAL INSTRUCTIONAL OBJECTIVES

Aims and objectives of the higher medical educational programs must be,

That the student accepts his/her special subject of education in its full sense as a life long activity and that he/she is prepared to invest time and effort to acquire, maintain and further improve his her own knowledge and skills.

A critical appreciation of techniques, procedures carried out in his her special subject of education; an understanding of scientific methods, reliability and validity of observations and the testing of hypothesis.

1. The ability and willingness to adopt a problem solving approach to manage clinical situations included in the definition of his her special subject of education.
4. The ability to plan and interpret a management program with due regard to the patients' comfort and economic factors.
5. His/ her awareness of the role of specialists of his/ her special subject of education in health / rehabilitation / welfare teams and his / her willingness to work cooperatively within such teams.
6. The awareness that he /she has to create his / own professional impact as a capable Specialist/ Teacher/ Scholar of his specialty in the world.
7. To pursue and develop the basic scientific pursuits and guideline for scientific discoveries to strengthen knowledge further about human body requirements.

## GENERAL STANDARDS

### GENERAL STANDARDS APPLICABLE TO THE UNIVERSITY AND AFFILIATED INSTITUTIONS.

#### a) University Structure.

The Dean Faculty of medicine and Dentistry, through Associate dean of the Postgraduate Medical Education is responsible for the overall conduct and supervision of Postgraduate Medical Education within the University of the Punjab.

The Board of Studies in Medicine and Dentistry are responsible for development and review of all aspects of M. Phil & Ph.D. Courses. The Associate dean of Postgraduate Medical Education will be ex-officio member of these Boards and will be member of all Committees and Subcommittees on Postgraduate Medical Education. The Boards of Studies in Medicine and Dentistry are responsible to:

- a. Establish general policies of Postgraduate Medical Education;
- b. Conduct internal reviews of all courses of M. Phil & Ph.D.
- c. Establish supervising policies for selections, evaluation, promotion and dismissal of candidates in all programs;
- d. Establish policies to ensure adequate supervision of candidates in order to protect and preserve the best interest of the patient, the students of the undergraduate courses, the attending physicians and the candidates. The components of the supervision of the candidates include:

- a. The candidates are involved in applied work in their special subject including patient care/teaching of students.
  - b. Assurance of progressive competence of the candidates for graded independent performance.
  - c. Policies regarding the physical presence of the attending physicians during act or procedures performed by the candidates.
- a. Ensuring that all M. Phil & Ph.D. courses address the required general skills of medical practice/teaching.
3. The function of the Committee of each Specialty Faculty in which M. Phil & Ph.D. courses are run may be facilitated by means of Subcommittees (e.g. Curriculum Committee, Accreditation Committee etc.). The Committees and Subcommittees, if any, must meet regularly and minutes must be kept.
4. The Faculty of each Specialty should be made up in such a way as to avoid being unduly large and yet provide representation for following groups:
- A Supervisors
  - B Administrators of affiliated institutions
5. The principals / Deans of affiliated Institutions must appoint director of Postgraduate Medical Education in their Institutions.



.1 (b) SITES FOR POSTGRADUATE MEDICAL EDUCATION

1. In all educational sites, the staff involved in Postgraduate Medical Education must hold appointment acceptable to the University and to the Institution.
2. All educational sites, existing at the time of notification of this document will be considered affiliated /approved for running respective M. Phil & Ph.D. courses. All new educational sites will be visited and approved by the Faculty of the Specialty of the University of Punjab.
3. All educational sites will undergo inspection every five years by the Faculty of the relevant Specialty of the University of the Punjab.
4. A list of minimum acceptable facilities, which are required for training of candidates for a specific course, will be developed by the Committee of the Faculty of the same Specialty. The educational sites will provide these facilities for training of candidates.
5. At all educational sites should have the required faculty to start M. Phil and Ph. D programs based on HEC criteria
6. All educational sites must be actively involved in a formal quality assurance/improvement program, including reviews of deaths and complications.
7. The Specialty departments/units, in private/public sector, that have supervisors with qualifications and experience which are acceptable to the University of Punjab; and where the quantity and

quality of technical work will be found satisfactory by the affiliation Committee of the University of the Punjab will be approved for running a specific course. The Faculty of same Specialty will fix the number of candidates, which can be admitted/enrolled in these education sites.

8. The specialty departments/units in private or public sector that have facilities and faculty that are acceptable to the University of the Punjab, for enrollment of the candidates; but cannot enroll candidates, due to the reason that these centers do not have approved Supervisor; can enroll the candidates under supervision of the supervisor of the already affiliated Department/unit.
9. The date for the visit of the Accreditation Committee must be proposed by the Principal/dean of the Institution with consultation of the Head of the Department / unit.
10. All new educational sites departments/units are visited and inspected by the Accreditation Sub-Committee of the Committee of the Specialty Faculty.

## **2.2 GENERAL STANDARDS APPLICABLE TO ALL M. Phil & Ph.D. COURSES.**

### **2.2(a) Administrative Structure**

- 1) There must be a supervisor, with the qualifications that are acceptable to Higher Education Commission and University of the Punjab, responsible for the overall conduct of the integrated Postgraduate Medical Education. The change in Supervisor can be allowed by the concerned Board of Studies in Medicine or Dentistry.

- 2) There must be Director of Postgraduate Medical Education in each Institution appointed by the Principal/Dean of the Institution.
- 3) There must be a Committee of each Specialty Faculty of the University of the Punjab; to assist the supervisors of their course in the planning, organization and supervision of the course. The Committee of each Specialty Faculty is responsible to revise its curriculum every five (5) years, and re-inspect approved education sites every five (5) years.
- 4) The members of each Committee of Specialty Faculty will be appointed by the Board of Studies in Medicine/Dentistry. The Members must be working as Supervisors/Co-Supervisors in the same Specialty and should have M. Phil & Ph.D. Degrees in the same Specialty. The Convener of each Committee of Specialty Faculty should have M. Phil & Ph.D. Degrees in the same Specialty, and must be actively functioning as Supervisor in his Specialty.

**2.2 (b)      Goals and Objectives**

1. There must be a statement of the overall goals of the course.
2. There must be specific education objectives with respect to knowledge, skills, and attributes for each module/rotation or other educational experience.
3. The statement of foals and objectives should be reviewed periodically by the Committee of the same Specialty Faculty.

**2.2 (c)      Organization of the Course**

There must be an organized program of rotations and other educational experience, designed to provide each resident with the opportunity to fulfill the educational requirements and achieve competence in the Specialty.

- 2) The course must be organized such that candidates are given professional responsibility, under appropriate supervision, according to their level of training, ability and experience.

#### 2 (d) Resources

**(The Committee of the Specialty Faculty is responsible to determine the recourses for its respective course)**

- 1) There must be a sufficient number of qualified teaching staff to provide appropriate teaching and supervision of the candidates.
- 2) The number and variety of patients of both sexes must be sufficient to meet the educational needs.
- 3) The teaching staff must exercise double responsibility of providing high quality, ethical patient care or laboratory work and excellent teaching.
- 4) There must be an experience-based learning process.
- 5) There must be easy access to a major Library. There should be access to a collection of appropriate texts and journals during evenings and weekends.
- 6) The physical and technical resources available to the program must be adequate to meet the needs of the course.

#### 2.2 (c) Academic and Scholarly aspects of the Courses.

The academic and scholarly aspect of the course must be commensurate with the concept of a University postgraduate Education. A spirit of enquiry will in part demonstrate the quality of Scholarship in the course during discussions, seminars, rounds, and conferences. Scholarship implies an in-depth understanding of basic mechanisms of normal and abnormal states and the application of current knowledge to practice. After submitting the research thesis, the candidate is expected to have acquired the ability to develop a research proposal, review the Literature, construct relevant forms to gather data, to analyze the results and derive conclusions, discuss them and write a report.

1. Organized scholarly activities such as journal club, research conferences and seminars must be a regular part of every course.
2. A satisfactory level of research and scholarly activity must be maintained among the faculty identified with the course.
3. To promote skills in self-assessment and self-directed life-long learning, the candidates should be provided opportunities to attend conferences outside the University of the Punjab.

## **2 (f) Evaluation of Performance of Candidates**

1. The in-training evaluation system must be based on the goals and objectives of the course and must clearly identify the methods by which residents are to be evaluated.
2. Knowledge should be assessed using appropriate written and oral examinations as well as direct observations.

3. Clinical/teaching skills should be assessed by direct observation of candidate interactions with patients, students, their families, and colleagues.
4. Interpersonal skills should be assessed by direct observation of candidate interaction with patients, students, their families, and colleagues.
5. Interpersonal skills should be assessed in collaboration with all other members of the patient care team.
6. Teaching skills should be assessed by written student evaluation, and by direct observation of the resident in seminar, lectures and case presentations.
7. Attitudes should be assessed by interviews with the peers, supervisors, allied health personal, and patient and their families.
8. There must be helpful and honest feedback to the candidate.
9. A final in-training report must be provided by the Supervisor to the University for each candidate who is eligible to sit the final examination of the University.

### SECTION-3

## REQUIREMENTS FOR TRAINING IN M. Phil & Ph.D. COURSE OF THE UNIVERSITY OF PUNJAB.

### 1 LENGTH OF THE COURSE

- 3.1 (a) Minimum duration course of each specialty M. PHIL, will be two (2) years and maximum of 3 years. Duration of PhD course will be 3 years and maximum of 5 years.
- 3.1 (b) The supervisor determines the timing of the rotations and postings and their educational content.
- 3.1 (c) Candidates enrolled in M. Phil can spend maximum of 12 months for research in the clinical departments during the whole course.

### 2 TRAINING ORGANIZATION AND RESPONSIBILITIES

#### 2 (a) Qualifications of the Supervisor

All supervisors need to fulfill the higher education commission criteria for becoming M. Phil/ Ph. D supervisors. The supervisor of M. Phil and Ph. D. Courses must have qualifications of M. Phil and Ph. D respectively, or have qualification and experience equivalent to them as considered by the University of Punjab. All faculty of the departments working in institutions affiliated with the University of Punjab and meeting HEC criteria can act as Supervisors

#### 3.2 (b) Responsibilities of The Institutions of Training.

1. The Institutions has a regular Director of the Postgraduate Medical Education to assist the dean / Principal to run the postgraduate education in the institution.
2. The Institution/ Departments have their Doctoral Program Committee, to sort out the complaints and blames of the Trainees.
3. The Institutions / Departments must make all possible efforts to arrange salaries / stipends / honorarium to the Trainees as the reward for the work they do in the department.
4. The Institutions / Departments must arrange proper duty rooms / duty stations for the Trainees.
5. The Institutions / departments provide beds to sleep to the Trainees who are on Emergency duties (To sleep when they are free, this will enhance their out put next day ).
6. The Institutions / Departments must arrange their Inspection / Audit every 3 years.
7. The Institutions / departments must participate in revision of the curriculum at least every 5 years.

3.2(c)

**Responsibilities and Rewards of the Supervisor**



## Responsibilities

- 1) The Supervisor must ensure the provision of adequate facilities, teaching staff (regular and visiting), teaching beds, operation theater facilities, out patient facilities, education resource materials and research facilities.
- 2) The supervisor must ensure that on average, residents should not participate in direct patient care or laboratory work for more than 80 hours per week.
- 3) The Supervisor is responsible for the selection of candidates in his department / unit, and must ensure that all selected candidates meet the eligibility requirements of the University of Punjab.
- 4) The supervisor must monitor each candidate's performance and progress in the development the cognitive and technical skills, ethics, and affective qualities needed by specialist / teacher in his specialty.
- 5) It is the Supervisor's responsibility to counsel, censure, or after due process, to dismiss a candidates who fails to demonstrate appropriate competence, reliability or ethics.
- 6) The Supervisor must maintain a file of current, written patient care statistics, the operative experience of individual candidate, policies on duty hours and supervision and regular assessment of resident performance. These documents must be provided on request to the members of the Inspection Committee of the concerned Committee of Specialty Faculty of the University of Punjab.

## Rewards

1. Psychological satisfaction and of giving education to the candidates.
2. Opportunity to promote science and research in the field of interest.
3. Rs. Ten thousand (10,000) will be awarded to the supervisors and co-supervisors on the successful completion of each candidate in M. Phil and Ph. D courses. (75% to the supervisor and 25% to the co-supervisor)

#### **2 (d) Responsibilities of the Teaching Staff**

is the responsibility of the teaching staff to:-

nsure that the structure and content of the curriculum on paper is practiced and  
at candidates are provided adequate experience in patient management/ teaching.  
his responsibility includes direct supervision in all patient care/teaching setting,  
ncluding operative, inpatient, outpatient and emergency, and participation in patient  
are conferences and other educational activities.

All faculty members in a unit/department must devote 20 hours each week to the  
training of candidates. Efforts should be made to have one full time faculty member  
devoting 45 hours per week for postgraduate training.

The teaching staff must participate in appropriate scientific societies, pursue their  
own continuing education, and demonstrate an active interest in related research.

#### **3.2(e) Number of Candidates in each department/unit (educational site)**

For M. Phil & Ph. D Courses the number of candidates will be based upon the

1. Number, qualifications and commitment of the Trainers; one trainee each year for each of the trainer in the department. (Trainers include Senior Registrar/ Assistant Professors, Associate Professors and Professors). One trainer/supervisor can have two (2) Trainees per year.
2. The volume and variety of patient population available for educational purposes. The Units/Departments providing all 7 days a week emergency cover may have one (1) additional trainee each year.

#### SECTION - 4

## GENERAL OUTLINES OF COURSE CURRICULUM CONTENT (SYLLABUS)

The Curriculum of approved course in any Special subject will be revised by Committee Faculty of the Specialty Faculty in the same subject as Constituted the Concerned Board of Studies of the University of Punjab. The concerned Board of Studies finally approves the curriculum content.

The curriculum content of the Courses is revised at least every 5 years.

The committee of the Specialty Faculty of a course in a special subject is possible to inspect the departments where education is imparted at least every 3 years to ensure that:-

- a) The Curriculum on papers is the curriculum in Practice, and
- b) The department has all basic requirements for providing education included in the curriculum content of the course.

### 1 (a): Guidelines to Prepare Curriculum.

Title of the Course e.g. M. Phil (Physiology)

Ph. D (Anatomy)

Aims and Objectives of the Course

(List of the General instructional Objectives(GIO))

Specific Instructional Objectives.

Details of the Curriculum Content arranged year wise along with specific Instructional Objectives of the Curriculum content for each year.

5. The curriculum content arranged calendar-wise, clearly mention the time dedicated to the compulsory core curriculum and the time dedicated for the electives (Minor Rotations) Available.
6. Instructional Strategies Instructional (Lectures, Seminars, Workshops, Tutorials); Experiential (Surveys, Field Visits, Apprenticeships) or self study.
7. List and durations of different electives along with their instructional objectives.
8. The Specific Instructional Objectives (SIO) will consist of two components of education (Theory and technical skills), which a candidate is expected to exhibit at the end of each year of training.
9. List of minimum acceptable technical requirements to run a course in the special subject.
10. List of Scholarly activities required for the course, i.e. Library, Computers, Internet, Seminars, Workshops, Lectures, Journal Clubs, Case Discussions, Field Surveys etc..
11. Format of formative longitudinal assessments i.e. Tests, Log Books, and Assignment etc.

#### **4.2: CURRICULUM CONTENT FOR M. Phil & Ph. D. COURSES**

##### **4.2 (a) Specialty of Admission (Major Compulsory Subject)**

All Specialties enlisted in which M. Phil & Ph.D. Courses are run, must have their separate curriculum content based on the outlines. These curriculum content

be prepared by the Committees of Specialty Faculty and must be approved by Board of Studies of Medicine or Dentistry.

**(b) list of M. Phil Courses-Basic Sciences**

**Medical Sciences**

- i M. Phil (Anatomy)
- ii M. Phil (Morbid Anatomy and Histopathology)
- iii M. Phil (Microbiology)
- iv M. Phil (Physiology)
- v M. Phil (Biochemistry)
- vi M. Phil (Forensic Medicine and Toxicology)
- vii M. Phil (Pharmacology)
- viii M. Phil (Medical Virology)
- ix M. Phil (Immunology and Serology)
- x M. Phil (Hematology)
- xi M. Phil (Chemical Pathology)
- xii M. Phil (Community Medicine)

**Dental Sciences**

- xiii M. Phil (Dental Materials)
- xiv M. Phil (Oral Biology)
- xv M. Phil (Oral Pathology)
- xvi M. Phil (Community Dentistry)

**4.2 (c) List of Ph. D Courses-Basic Sciences**

**Medical Sciences**

- i Ph. D. (Anatomy)
- ii Ph. D. (Morbid Anatomy and Histopathology)
- iii Ph. D. (Microbiology)

- iv Ph. D. (Physiology)
- v Ph. D. (Biochemistry)
- vi Ph. D. (Forensic Medicine and Toxicology)
- vii Ph. D. (Pharmacology)
- viii Ph. D. (Medical Virology)
- ix Ph. D. (Immunology and Serology)
- x Ph. D. (Hematology)
- xi Ph. D. (Chemical Pathology)
- xii Ph. D. (Community Medicine)

#### **Dental Sciences**

- xiii Ph. D. (Dental Materials)
- xiv Ph. D. (Oral Biology)
- xv Ph. D. (Oral Pathology)
- xvi Ph. D. (Community Dentistry)

#### **4.3: Basic Outline of Curriculum content for M. Phil Course**

- The first year after admission will include following course.
  - 1) Introduction to the Special Subject.
  - 2) Biostatistics and Research Synopsis Writing.
  - 3) Minor Subject (Basic Sciences)
- The second year Curriculum Content will include details of the Curriculum Content of compulsory and optional rotations and research

#### **4.3: Basic Outline of Curriculum content for Ph. D. Course**

- All Ph. D. course outlines will be made by the supervisors based on the research proposal of the candidate and submitted to DPC within two weeks of admission of the candidate.

## **SECTION – 5**

### **GUIDELINES FOR ADMISSION**

The registrar of the University of Punjab will admit students in the above mentioned courses.

#### **5.1: Advertisement**

- The M. Phil and PhD program shall be advertised in the beginning of each academic session.
- The faculty of every Department/Institute/Centre should ascertain the number of places/programs available every year before the advertisement based on the criteria laid down by University of the Punjab and HEC.

#### **5.2: Admission Criteria**

##### **5.2 (a) General Requirements**

1. MBBS/BDS from the University of Punjab or equivalent
2. One – year house job after graduation
3. Valid NTS-GAT Test score  $\geq 60$ .

##### **5.2 (b) Special Requirements**

- i. The number of candidates will not exceed the number of training posts available. The evaluation Certification by the Professor / Head of the Department / Unit that candidate have been evaluated and found fit for post graduation in same specialty.



- ii. If the number of candidates will not exceed the number of available slots, the admission will be based upon the above-mentioned general requirements and the recommendations of the supervisor.
- iii. When large number of candidates will apply for small number of seats, the admission will be based on merit

### **5.3: Admission Process**

- i. The application shall be submitted to the Chairman/Director/Principal of the Institute / College in which the student wishes to pursue his studies.
- ii. All applications received in the Institute / College shall be scrutinized for eligibility by the Doctoral Program Committee (Dean, Associate Deans, all Professors of the relevant departments & one senior most Associate professor, one senior most Assistant professor / Lecturer, holding PhD degree). The Doctoral Program Committee of the Faculty of Medicine and Dentistry will be constituted by the Vice-Chancellor on the recommendation of Dean of the Faculty.
- iii. After registration / enrolment at the University of Punjab, the student will submit his / her joining through his / her supervisor and will be admitted in the office of the Principal / Dean of the college / Institute of the Department of the study.
- iv. **An applicant shall be judged on the basis of the following criteria for admission:**
  - a) Academic qualifications –40 Marks\*
  - b) Publications – (1 Mark per publication) –05 Marks
  - c) Professional experience –05 Marks (one mark for each year)
  - d) Written test (comprehension of the subject, General aptitude for research)–40 Marks
  - e) Interview –10 Marks

\* Break down of 40 marks of academic Qualification

### M. Phil

Course/ Degree	%age Marks					
		50%	55%	60%	70%	≥ 80%
Matric	Marks	4	5	7.5	8.5	10
F.A/F.Sc	Marks	4	5	7.5	8.5	10
MBBS/ BDS (First Attempt)	Marks	4	5	7.5	8.5	10
MBBS/ BDS (Second Attempt)	Marks	2	2.5	4	5	6
MA/ MSc	Marks			7.5	8.5	10

### Ph. D.

Course/ Degree	%age Marks				
		50%	60%	70%	≥ 80%
Matric	Marks	4	6	8	10
F.A/F.Sc	Marks	4	6	8	10
MBBS/ BDS (First Attempt)	Marks	4	6	8	10
MBBS/ BDS (Second Attempt)	Marks	2	3	4	5
M. Phil/ MSc/ equivalent	Marks		6	8	10
	CGPA				
		2.5	3.0	3.4	>3.8
M. Phil/ MSc/ equivalent	Marks	5	6	8	10

Minimum marks for qualifying for admission –50%

#### **5.4: REGISTRATION (ENROLMENT) FEE.**

The candidate will be registered with the University of Punjab and Registrar will maintain a record of Registration. The Fee can be changed from time to time by the concerned Board of Medicine / Dentistry.

#### **5.5: ADMISSION FEE**

Admission Fee will be deposited in the office of the Principal / Dean of the Institution at the time of Admission

#### **5.6: TUTION FEE**

All candidates of M.PHIL & PhD will be pay tuition fee for the course

#### **5.7: NUMBER OF ADMISSIONS IN EACH COURSE IN EACH INSTITUTION**

The Principals / Deans of all Colleges / Institutes will provide a list of the Title of Courses and No. of students they can admit in each course in each year in various Departments of their College / Institute to the Dean Faculty of Medicine and Dentistry of the University of Punjab for record purposes and of the Registrar of the University of Punjab for admission purposes.

The doctoral Program committee shall recommend to the Dean of Faculty concerned for approval of the names of applicants, who are found suitable for studies in M. Phil and PhD degree along with the name of supervisor/s. The selected candidates shall pay their dues within 15 days of Admission Notification failing which their admission shall be deemed as cancelled.

\*\*Qualification will be equalized according to the guidelines approved by the Higher Education Commission of Pakistan

## SECTION-6

### PROGRAMME OF STUDIES

#### M. Phil Course

- The normal period of the M. Phil shall be 2 years. The normal period can be extended to only one year after which no further extension will be granted.
- The candidate shall appear in Part-1 Examination after one year of admission and has to clear part-1 in a maximum of four attempts
- The synopsis needs to be submitted to the DPC within one year of admission in the course
- After completion of two years the candidate will give a structured viva examination and will do defense of thesis
- If the thesis is not submitted before the oral/practical exam the results of both components will be declared saperately.

#### Ph. D. Course

- The minimum period of completion of PhD program shall be three years. The normal period may further be extended up to 2 years on the recommendation of Research supervisor and Board of studies. After 5 years, the scholar shall not be generally eligible for readmission. However, in hardship cases re-registration can be approved on the recommendation of supervisor and Doctoral program committee which can only be done for one more year.
- ★ • Admitted students will clear subject specific GRE/NTS/University based test at the time of admission in the course.
- Students enrolled in PhD student will undertake 18 credit hours (*one semester*) of specialized course / training and appear in the comprehensive examination before submission of his/her synopsis.
- Candidate needs to complete minimum 18 credit hours of course work related to the field of specialization within one year of admission in PhD program

- The course outline and the contents of training modules of each candidate will be determined by the relevant department on recommendation of the supervisor and on approval of the DPC of the Faculty of Medicine and Dentistry.
- The supervisor shall submit the course outline and the contents of training modules of each candidate within two weeks of admission
- ✕ • The supervisor will, at the end of the semester certify that the proposed course work/ training has been completed.
- A comprehensive examination to be conducted by the relevant department by a panel of three examiners to be appointed by the Dean on recommendation of the relevant Associate Dean on advise of supervisor of the candidate.
- The supervisor shall send the final award list to the Chairman/ Director/Principal of the institute/ College who will forward it to the controller of examinations and a copy to Dean.
- The student will pass in the comprehensive examination before submission of his/her synopsis. If the student does not pass the comprehensive examination in first attempt, he/she may be given one more chance on the recommendation of his supervisor. Admission to the program shall be deemed as cancelled if he/she does not pass the comprehensive examination even in the second attempt.
- After passing the comprehensive examination of the specialized course, the student may carry out their experimental work in their parent institution/ laboratory on the recommendation of the supervisor and with the approval of the Board of Studies at the time of approval of the synopsis.
- After passing the comprehensive examination, a PhD student will give one seminar on topic relevant to his/her field of research within one year of approval of synopsis
- Research will be done for 2-4 years

- Candidates need to have at least one publication in HEC approved journal before thesis submission
- The thesis will be evaluated by two foreign experts followed by public defense and viva by a local examiner
- The supervisor/s of a PhD student shall submit a detailed report by 30th June and 31st December each year on the progress of the student to the DPCC for onward transmission for the consideration of the Advanced Studies and Research Board.
- In case of two consecutive adverse reports, the Advanced Studies and Research Board may cancel the registration of the candidate.

### **Thesis Submission**

Each M. Phil. / Ph.D. student must submit a body of research work for examination. This is known as a thesis. It is the material form of a sustained program of research that has produced original findings. The thesis comprises of a conventional written text presented as typescript.

The student shall submit a thesis for examination to the Doctoral Program Committee that shall:

- meet the University's requirements for academic integrity in research;
- be an accurate account of the research program;
- be assessable according to examination criteria;
- conform with the appropriate guidelines for presentation
- The work on which the thesis is based shall be the original work of the student normally carried out during the period of the enrolment in the program and with the approval of the Board of Studies.
- Work which has been submitted for any other academic award may not be submitted as the main content of the thesis. Where the main content of the thesis consists of any significant extension or elaboration of the student's earlier work, that portion referring to previous work must be clearly indicated. Work undertaken as part of any qualifying program approved by the Board of

Studies or the Doctoral Program Committee may be taken into account as part of the work for the degree for which that program qualified.

- A student shall normally make a formal presentation of the thesis to a Research seminar prior to the commencement of the examination process.

The student must preface the thesis with a signed statement affirming that:

- to the best of their knowledge, the thesis contains no material written by another person except where due reference is made in the text of the thesis;
- that the material in the thesis has not been the basis of the award of any other degree or diploma except where due reference is made in the text of the thesis;
- all substantive contributions by others to the work presented in the thesis, including jointly-authored publications, must be clearly acknowledged.

When the student submits the thesis for examination, the Supervisor shall provide a statement to the Doctoral Program Committee, through the Head of the Institution verifying:

- the extent to which the work, that is data collection, data analysis, and writing of the thesis, was carried out by the student and, if an editor was used, the extent of the involvement of the editor;
- the authorship of the thesis to the best of their knowledge;
- whether the thesis is properly presented and is worthy of examination; and
- that the research has been conducted in a responsible manner and in agreement with approved research policies for human research ethics, animal ethics, or other research policies appropriate to the nature of the research.

This last statement should be countersigned by the Head of the Institution.

#### **Characteristics of the Research Topic.**

The research topic in clinical subjects should address 20% to the related applied basic sciences and in basic sciences should address 20 % to the related applied clinical sciences. The research topic must consist of a reasonable sample size and sufficient No. of variables to give training to the candidate to conduct research to acquire data, analyze. Data and reach results, discuss results and draw conclusions and thus test the hypothesis.

## **SECTION-7**

### **EXAMINATION**

#### **7.1: Entry Evaluation**

If the number of candidates will be more than the available seats, then the University of Punjab will hold Entry evaluation, every year on the date as announced by the controller of examination of university of Punjab. The examination will consist of written paper or interview or both, as approved by the Boards of Studies of Medicine and Dentistry.

The fee for Entry Evaluation will be determined by the Board of Studies of Medicine and dentistry and will be changed from time to time.

#### **7.2: EXAMINATION**

##### **7.2 (a) M. PHIL. PROGRAM**

##### **7.2 (a) i: Intermediate Evaluation (Part-I Examination)**

- (a) All candidates admitted in M. Phil courses will appear in Part-I examination at the end of the one year of the training.
- (b) A maximum of four attempts will be allowed to each candidate to successfully pass Part-I examination. No further chances will be given to the candidate who fails to clear Part-I exam in the allotted four attempts.
- (c) The Examination will consist of three papers. (Separate Examination of each M. Phil Course)

Paper-1	Specialty Subject
Paper-2	Specialty Subject
Paper-3	Minor Subject*



\*One MINOR SUBJECTS for each M. Phil Course will be selected from the minor subjects listed below in front of each M. Phil course.

Sr. No	M. Phil COURSE	MINOR SUBJECT/S
i.	M. Phil (Anatomy)	Physiology, Microscopic anatomy/Cell Biology, Biochemistry
ii.	M. Phil (Morbid Anatomy and Histopathology)	General Pathology, Chemical pathology, Microbiology, Hematology
iii.	M. Phil (Microbiology)	General Pathology
iv.	M. Phil (Physiology)	Anatomy, Biochemistry
v.	M. Phil (Biochemistry)	Anatomy, Physiology, Chemical pathology
vi.	M. Phil (Forensic Medicine and Toxicology)	Anatomy, Physiology, General Pathology
vii.	M. Phil (Pharmacology)	Physiology
viii.	M. Phil (Medical Virology)	General Pathology
ix.	M. Phil (Immunology and Serology)	General Pathology
x.	M. Phil (Hematology)	General Pathology
xi.	M. Phil (Chemical Pathology)	General Pathology
xii.	M. Phil (Community Medicine)	Public health, Primary healthcare, Preventive Medicine
xiii.	M. Phil (Dental Materials)	Oral Biology, Biochemistry
xiv.	M. Phil (Oral Biology)	Dental Morphology, Anatomy, Physiology
xv.	M. Phil (Oral Pathology)	Oral Medicine, General Pathology, Microbiology
xvi.	M. Phil (Community Dentistry)	Preventive Dentistry, Dental Public Health, Primary healthcare

- (d) For Part-I Examination the specialty papers will be set by a panel of three (3) examiners comprising of one internal examiner (Supervisor), one external examiner and one paper setter. The Head Examiner of both of these panel examiners will be the professor who is also functioning as Supervisor in the subject of admission. The minor subject will be chosen by the supervisor from the list of minor subjects available for the specialty and this paper will also be set by a panel of three (3) examiners.
- (e) Paper Weightage: Each paper will carry 100 Marks. Time allowed for each paper will be three hours for each paper.
- 40 MIN
- (f) There will be 30% MCQs and 70% SEQs in each paper
- (g) Cumulative pass marks of the Specialty papers will be 60%.
- (h) Pass marks for the Minor Subject will be 60%
- (i) In case of failing in Specialty paper and passing minor subject paper the candidate will reappear for minor subject paper only
- (j) In case of failing in Minor paper and passing Specialty paper the candidate will reappear for Specialty paper only
- (k) **Eligibility to appear in part-I Examination**
1. Application by the candidate recommended by the Supervisor.
  2. Certificate by the Supervisor that candidate has regularly attended at least 75% of the Lectures, Seminars, Practical, demonstrations of the Phase-I education.
  3. Bank Challan form of payment of examination fee. The Board of studies of Medicine /Dentistry can change the fee from time to time.

## 7.2 (a) ii Part-II Examination (Final Evaluation after two years of study)

### A: Eligibility to appear in Part-2 Examination

- The candidate has completed the prescribed period of training of the course.
- The candidate has passed the Intermediate Evaluation. (Part-I Examination).
- The application form for Part-II M.PHIL examination with recommendations of the supervisor.
- The Bank Challan form for the payment of the Examination fee. Board of studies of Medicine/Dentistry can change the examination fee from time to time.

### B: Components of Part-2 Examination

There will be two components of the M. Phil Part-II examination.

- a. Oral/ Practical
- b. Defense of thesis

Both the components need to be examined separately and their results will be declared separately as well. In case of passing one component of M. Phil Part-II examination that is Oral/Practical or Defense of thesis, the result will be declared as R/L while in case of failing passing one component of M. Phil Part-II examination that is Oral/Practical or Defense of thesis the result will be declared as Fail. Final Notification of passing M. Phil Part-II will have marks of both the components incorporated in it.

#### **1. Specialty subject based structured Viva/Oral/Practical Exam**

- The viva will be structured and the organization will be done by the supervisor at one time for all the candidates of the specialty
- There will be a panel of three external examiners for conducting the viva

- The panel of examiners will be appointed by the Board of Studies on recommendation of the supervisor
- The viva will be based on the subject of specialization of the candidate
- Total marks for the examination will be 300
  - i. Internal Assessment = 50 Marks
  - ii. Structured Viva/TOACS = 100 Marks
  - iii. Oral Examination = 150 Marks (50 marks per examiner)
- Pass percentage for the examination will be 60%
- A maximum of four attempts will be allowed to each candidate to successfully pass Part-II examination. No further chances will be given to the candidate who fails to clear Part-II exam in the allotted four attempts.

## **2. Defense of Thesis (after thesis submission within the allowed time)**

Defense of thesis of the candidates will be done on individual basis depending on the submission of thesis by each candidate.

The total marks of thesis evaluation will be 300. One hundred marks will be allotted to each examiner

Examiners shall examine the student's thesis according to the following criteria:

- a. Capacity to demonstrate critical analysis and original thought in all aspects of the study;
- b. Ability to demonstrate a comprehensive and detailed knowledge of the literature and theoretical understandings relevant to the field of study;
- c. Capacity to apply appropriate research methodologies;
- d. The extent to which the thesis makes an original contribution to knowledge and/or the application of knowledge within the field of study;
- e. The quality of the presentation of the thesis, including:
  - The clarity of expression,

- The accuracy and appropriateness of presentation of results,
  - The quality and relevance of illustrative material (such as graphs, tables, illustrations)
  - The relevance and accuracy of citations, references, etc and
  - The development of a coherent argument where relevant to the field of study.
- f. The quality of procedures carried out during the study, if any, including:
- The conceptual understanding of the relevant field,
  - The ideas and/or imagination demonstrated,
  - The technical competence,
  - The complexity and difficulty demonstrated, and
- g. The worthiness of the thesis for publication in any appropriate form.

#### **Appointment of Examiners / Examination Protocol:**

- i. The Board of Studies will approve a panel of Examiners for evaluation of thesis before submission. The supervisor /s will not act as an Examiner.
- ii. The Vice-Chancellor shall appoint three Examiners from the panel approved by the Board of Studies.
- iii. The Controller of Examination shall get thesis evaluated within six weeks after the date of submission /resubmission of thesis to his office. Any delay beyond six weeks must be brought to the notice of the Vice-Chancellor immediately.
- iv. The examiners shall approve / approve with minor corrections / approve with major revisions / reject the thesis. While recommending minor corrections / major revisions / rejection the examiners shall submit a report on the reasons for the decision and also point out the corrections / revisions recommended.
- v. No degree shall be awarded unless all examiners recommend the award of the degree. While recommending the award of degree the examiners shall also report

whether or not the thesis is fit for publication both from the point of view of content and language.

vi. If two of the examiners approve the thesis and the third rejects it, it shall be sent to a fourth examiner, for evaluation. If the fourth examiner approves the thesis, the candidate shall be recommended for the award of the degree. However, if the fourth examiner also rejects the thesis, the candidate shall be declared to have failed.

vii. If any of the examiners adjudges the thesis inadequate and suggests modification/revision of the thesis, the candidate will be required to re-submit a revised version of the thesis within three months.

viii. The revised version of the thesis shall be approved by the same examiner who suggests modification of the thesis.

ix. If any of the examiners finds the thesis adequate but suggests minor modification revision, this may be incorporated and certified by the thesis supervisor.

xiv. If the candidate passes the defense of thesis, the degree MASTER OF PHILOSOPHY in the relevant subject, shall be awarded to the candidate, after reports of the examiners for the thesis and oral examination are approved by the Board of Studies in Medicine and Dentistry.

## **7.2 (b) PH. D PROGRAM**

### **7.2 (b) i: Subject Based GRE**

- Candidate has to clear subject based GRE at the time of admission in the course.
- Pass marks in ETS-GRE test are 50%, NTS subject test is 60% and university based subject test is 70%. The university based GRE will be formulated at the time of admission and will be the admission test for entry in Ph. D degree.
- The subject based university exam will be made by three Ph. D degree holders from the institution/university.

- One of the paper setter will be the supervisor and the other two will be appointed by the Dean, Faculty of medicine & Dentistry upon recommendation of the supervisor
- The weightage of the paper is 100 marks and will be based on 30%-50% MCQs and 50%-70% SEQs.
- Pass marks will be 70%.

#### **7.2 (b) ii: Comprehensive Examination**

- Comprehensive examination will cover all the coursework
- It will be set by panel of three examiners appointed by Dean on recommendation of the supervisor
- It will be one comprehensive paper of 100 marks each
- To pass the comprehensive examination a student must score a GPA of more than or equal to 3.
- If a student does not score a GPA of 3 he/she will be given a second chance to appear in the exam.
- If the student fails to clear comprehensive with a GPA of 3 or more even in the second attempt his/her name will be removed from the course.

#### **7.2 (b) iii: Final Evaluation**

Defense of thesis will be done after final evaluation of thesis by two foreign experts in the field as per regulations of University of the Punjab.

#### **Criteria for Examination of Thesis**

Examiners shall examine the student's thesis according to the following criteria:

- a. Capacity to demonstrate critical analysis and original thought in all aspects of the study;

- b. Ability to demonstrate a comprehensive and detailed knowledge of the literature and theoretical understandings relevant to the field of study;
- c. Capacity to apply appropriate research methodologies;
- d. The extent to which the thesis makes an original contribution to knowledge and/or the application of knowledge within the field of study;
- e. The quality of the presentation of the thesis, including:
  - The clarity of expression.
  - The accuracy and appropriateness of presentation of results.
  - The quality and relevance of illustrative material (such as graphs, tables, illustrations)
  - The relevance and accuracy of citations, references, etc and
  - The development of a coherent argument where relevant to the field of study.
- f. The quality of procedures carried out during the study, if any, including:
  - The conceptual understanding of the relevant field,
  - The ideas and/or imagination demonstrated,
  - The technical competence,
  - The complexity and difficulty demonstrated, and
- g. The worthiness of the thesis for publication in any appropriate form.

#### **Appointment of Examiners:**

- i. The Board of Studies will suggest to the Advanced Studies and Research Board to approve a panel of External Examiners (local and foreign) for evaluation of thesis before submission.



- i. The Vice-Chancellor shall appoint two External Examiners (one out of these may be from abroad) from the panel approved by the Advanced Studies and Research Board. The supervisor /s will act as not be appointed Examiner/s.
- iii. The controller of Examination shall get thesis evaluated within three month after the date of submission /resubmission of thesis to his office. Any delay beyond three months shall be brought to the notice of the Vice-Chancellor immediately.
- iv. No degree shall be awarded unless all examiners recommend the award of the degree. While recommending the award of degree the examiners shall also report whether or not the thesis is fit for publication both from the point of view of content and language.
- v. The examiners shall approve / approve with minor corrections / approve with major revisions / reject the thesis. While recommending minor corrections / major revisions / rejection the examiners shall submit a report on the reasons for the decision and also point out the corrections / revisions recommended. If both Examiners find that the thesis is wholly inadequate it may be considered for the award of the M. Phil degree.
- vi. If one of the examiners approves the thesis and the other rejects it, it shall be sent to a third examiner, for evaluation. If the third examiner approves the thesis, the candidate shall be recommended for the award of the degree, however, if the third examiner also rejects the thesis the candidate shall be declared to have failed.
- vii. If any of the examiners adjudges the thesis inadequate and suggests modification/revision of the thesis, the candidate will be required to re-submit a revised version of the thesis within one year. He will be required to pay fresh fee for the examination.
- viii. The revised version of the thesis shall be approved by the same examiner who suggests modification of the thesis.

ix. If any of the examiners finds the thesis adequate but suggests minor modification revision, this may be incorporated and certified by the thesis supervisor.

x. If the thesis is adjudged as adequate by all the Examiners and accepted by the Board for Advanced Studies and Research, the candidate shall be required to undergo a viva-voce examination to be conducted by one External Examiner and supervisor/s.

xi. If both external examiners are from outside Pakistan, one examiner for viva-voce examination should be appointed within Pakistan from the approved panel.

xii. The viva-voce examination shall be open to the public but the evaluation will be done only by the Examiners for this purpose.

xiii. If the candidate fails to satisfy the examiners in the viva-voce examination, they may require the candidate to defend the thesis for the second and final time within a period of six months.

xiv. If the candidate passes the viva-voce examination, the degree DOCTOR OF PHILOSOPHY in the relevant subject, shall be awarded to the candidate, after reports of the examiners for the thesis and oral examination are approved by the syndicate on the recommendation of the Advance studies and Research Board.

#### **Criteria for examiners**

Examiners shall:

- Hold a research degree at the level they are examining, or have equivalent professional experience;
- Be of high academic standing in the student's research field;
- Wherever possible, have recent research activity in that field;
- Have the capacity to arrive at an independent assessment of the thesis;
- Have knowledge about the standards expected for the thesis/research work;

- Not have given any substantive advice on the research (except in the case of a resubmitted thesis); and
- Not had or have a close personal relationship with the student or supervisors.

Following approval of examiners the Controller of Examinations will confirm the examiners' availability and dispatch the thesis to them for assessment.

Where an examiner fails to return an assessment within the required time of receiving a thesis for examination, the Board of Studies may appoint another examiner.

### **Appeal**

A student may submit an appeal to the Doctoral Program Committee to have the thesis re-examined once only, provided that evidence is submitted to the satisfaction of Doctoral Program Committee that any of the examiners:

- was unqualified to examine the work; or
- substantially misinterpreted the work; or
- was prejudiced or biased in the assessment of the thesis.

Doctoral Program Committee will determine whether the appeal should be upheld or rejected and, if upheld, shall appoint new examiners. If the appeal is not upheld, the student will be informed accordingly.

The decision of the Doctoral Program Committee will be final.

## e) Result

### A. M. Phil

#### **PART-I**

- Candidates who will clear all specialty and minor papers will be declared pass
- Candidates who will clear the specialty papers and fail the minor subject will reappear in minor subject paper only
- Candidates who will clear the minor subject paper and fail the specialty paper will give only the specialty papers again

#### **PART-II**

- The candidates who will pass oral/ Practical, Defense of the thesis will be declared pass.
- The candidates who will pass oral/practical exam but fail thesis defense will re-appear in Defense of the thesis only.
- The candidates who will pass thesis but fail Oral/Practical examination will re-appear in Oral/Practical examination only.
- In case of examination of one component of the Part-II examination, separate result will be declared for M. Phil Part-II Oral/Practical and defense of thesis exam as R/L for those who pass and FAIL for those who fail. Final result will be declared after clearing both the examinations.
- To pass as ordinary, the candidate must obtain 60% marks in oral examination and defense of thesis separately
- To pass with distinction, the candidate must obtain overall marks of 80% or above.

### **B. Ph. D**

- The result will be declared pass or fail after defense of thesis