



# **2019**

## **PROSPECTUS**

**M. Phil./M.S.,Ph. D., M. S.(Surgery)  
& M. D. (Medicine)  
Program 2019**

**ADVANCED STUDIES & RESEARCH BOARD  
UNIVERSITY OF KARACHI**

**Members of the Advanced Studies and Research Board**

**Acting Vice-Chancellor  
Prof. Dr. Khalid M. Iraqi**

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<b>Prof. Dr. Bilquees Gul</b>	Institute of Sustainable Halophytes Utilization (ISHU)
<b>Prof. Dr. Summer Sultana</b>	Department of Political Science

**Nominees of the Academic Council**

<b>Prof. Dr. Nasiruddin Khan</b>	Department of Chemistry
<b>Prof. Dr. Shah Ali ul Qadar</b>	Department of Biochemistry
<b>Prof. Dr. Anila Amber Malik</b>	Department of Psychology

**Professors Emeritus**

**Prof. Dr. Syed Irtifaq Ali, D. Sc.**

Dr. A. Q. Khan Institute of  
Biotechnology & Genetic  
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**Prof. Dr. Atta-ur-Rahman, FRS**

International Centre for  
Chemical & Biological Sciences

**Prof. Dr. Manzoor Ahmed**

Department of Philosophy

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## INTRODUCTION

University of Karachi established in 1951, is one of the oldest institutions of higher education of Pakistan. It offers rigorous and vibrant graduate and post-graduate degree programs in the Faculties of Education, Islamic Studies, Law, Management & Administrative Sciences, Medicine, Pharmacy & Pharmaceutical Sciences, Science and Arts & Social Sciences. The research and the teaching programs are supervised by about 400 qualified faculty members. These postgraduate programs are offered in 58 teaching departments and 17 research institutes and centers.

University of Karachi offers graduate and post-graduate students well equipped laboratories, digital library and video-conferencing facilities in a multi-disciplinary environment. It is committed to uphold its tradition of producing top-quality graduates in cutting-edge areas of Business and Management Sciences, Bio-Medical & Engineering Sciences, Technologies, Social and Natural Sciences. The programs are designed to match the emerging needs of industries and research and development organizations, both in public and private sectors.

During the last five years, University of Karachi has awarded more than 2000 M.S.(Surgery), M.D.(Medicine), M. Phil. and Ph.D. degrees. Presently, more than 4320 students are enrolled in M.S.(Surgery), M.D.(Medicine), M. Phil. and Ph.D., programs. Faculty members at the University of Karachi are engaged in pursuing research in various disciplines and publish extensively in journals of international repute.

University of Karachi provides excellent opportunities to its postgraduate students and faculty members for scholarships, linkages, trainings and collaboration with the world's top universities in research projects with universities/institutions/centers in the technologically advanced countries.

# **ADMISSION TO M.Phil., M.S. AND Ph.D. DEGREE PROGRAMS**

## **Requirement and Procedure for M.Phil. and M.S.**

### **A. Eligibility Criteria (M.Phil. and M.S.)**

1. At least sixteen years of studies (Masters degree, M.A., M.Sc., M.B.A., M.P.A., B.B.A.(4 years), M.A.S., M.L.I.S., M. Com., B.S.(4 years), B. Pharm., Pharm. D., M.B.B.S., B.D.S., D.V.M.) or equivalent qualification with at least second division in the relevant field from an HEC recognized university/institution.. However, candidates with M.B.B.S., B.D.S., D.V.M. or equivalent qualification will be required to undertake 15-credit hour courses (300-600 level), in addition to 24-credit hour courses prescribed for M. Phil program and 30 credit hour courses for M.S. program. There is no requirement to submit Equivalence certificate for the graduates of Public Sector Universities.  
**Note:** 6 credit hours of research work are mandatory for M.Phil. Those candidates who have done M.S. (with course work) are not eligible for admission in Ph.D.
2. The admission will be granted on the basis of Test & Interview by the Departmental Research Committee of the concerned department/center/institute. Guideline for Interview marks are given in **Annexure-II**.
3. If candidate has already qualified the International (subject) GRE/GAT/NTS, he/she will be exempted from the test. The validity of International (subject) GRE/GAT is for 5 years and NTS is for two years. However, interview will be mandatory.

### **B. Admission Procedure (M. Phil. and M.S.)**

1. All candidates will be required to submit the following documents along with the Entrance Test Application Form:
  - i. Photocopy of the consolidated transcript/marks certificate of the last degree examination.
  - ii. Photocopy of Computerized National Identity Card.
  - iii. Two recent passport size photographs.
2. All candidates will be required to appear in the Entrance Test 2019 conducted by the relevant departments/centers/institutes of the University of Karachi. This is mandatory for all the candidates.
3. a) The test shall comprise of the following sections:

<b>Section-I</b>	<b>Subject knowledge</b>	<b>80%</b>
<b>Section-II</b>	<b>English and Communication Skills</b>	<b>20%</b>

b) Candidates will be required to score at least 50% marks in each section to be eligible for consideration for the *provisional admission*.

**Note:** *Qualifying the admission test is no guarantee for admission.*

4. All the students who qualify the test will be required to appear in person for an interview to be conducted by the respective Departmental Research Committee (DRC) to finalize the admission procedure.

### **C. Provisional Admission for M. Phil. /M.S.**

1. Applications for provisional admission will be considered on the basis of eligibility, merit, availability of seats and supervisors.
2. Final admission list will be prepared by the DRC according to the following formula:
  - i. The marks obtained in the prerequisite degree examination will be given 50% weightage.
  - ii. The marks secured in the Entrance Test 2019 will be given 30% weightage.
  - iii. The marks obtained in the interview will be given 20% weightage.Distribution of interview marks are given in **Annexure-II**

### **D. Submission of Forms for Admission**

Candidates selected for provisional admission will be required to submit the following documents along with the completed admission forms duly signed by the Chairperson/Director of the Department/Institute/Center and the Dean of the Faculty concerned:

1. Two recent passport size photographs, duly attested by the Chairperson/Director of the Departments/Institute/ Centers concerned.
2. Photocopies of certificates/ degrees from S.S.C. to Masters or the prerequisite exam.
3. Degree holders of other Universities must submit photocopy of Migration Certificate.
4. Photocopy of Computerized National Identity Card.
5. A letter of leave for two years from the employer, if the candidate is in service or a certificate of non-employment stating that during research no employment shall be undertaken, executed on a stamp paper worth Rs. 100/- (attested by Notary Public/ Oath Commissioner).
6. Teachers and employees of organization where research work is conducted are exempted from leave. However, a NOC from the employer and a certificate stating that employment is relevant to his/her research from the Chairperson/Director of the concerned Department/ Institute/ Center will be required and should submit within six months after the date of provisional admission.
7. In case of foreign students, NOC from the Ministry of Education, Economic Affairs Division and Ministry of Foreign Affairs, Government of Pakistan, Islamabad and a copy of valid visa and passport.
8. Certificate from the Equivalence Committee, University of Karachi, in case the accreditation status of the prerequisite degrees is not clear.
9. The Admission & Tuition fee mentioned in **Annexure-I**.

**(All the Photostat copies should be attested)**

### **E. Duration of M. Phil. and M.S.**

The duration of M. Phil. and M.S. will be minimum of two (02) and maximum of four (04) years from the date of provisional admission. No further extension will be possible.

## **F. Course Work**

### **a) M.S. (with course work “Terminating degree”)**

1. All selected candidates will be required to complete 10 courses of 30 credit hours (each of 3 credit hours in four semesters) in 2 years. See Annexure-IV for details.
2. Every candidate will be required to submit details of courses duly endorsed by the course Incharge and Chairperson of the parent department in the Semester Examination Section on prescribed course selection proforma (Annexure-IV).
3. Candidates are required to attend at least 75% classes of each course.
4. In first year all candidate will be required to complete 8 courses of 24 credit hours (4 courses in each semester). In second year candidate has to pass the 2 courses of 6 credit hours (1 course in each semester) along with non-credit hours independent study (essay writing/project).
5. The candidate must clear the course work of 30 credit hours with minimum CGPA 3.00.
7. **A student who will be declared short of CGPR shall improve it in the next available single chance by appearing in any two courses having less than 70 marks i.e. B<sup>-</sup>.**
8. If the student fails to attain a CGPA of 3.00 or more even after the improvement chance, he/she will be given only a Post Graduate Diploma (PGD) instead of M.S. degree. Student can improve his/her CGPA in three years. Minimum 2.5 CGPA is required for Post Graduate Diploma.
9. **Those candidates who have done M.S. (with course work) are not eligible for admission in Ph.D.**

### **b) M.Phil. (With Course and Research Work)**

6. All selected candidates will be required to complete 8 courses of 24 credit hours in two semesters (each course of 3 credit hours). See Annexure-IV for details.
7. Candidates are required to attend at least 75% classes of each course.
8. Every candidate will be required to submit details of courses duly endorsed by the course Incharge and Chairperson of the parent department in the Semester Examination Section on prescribed course selection proforma (Annexure-IV).
9. The student has to pass the course work with CGPA 3.0 or more.
10. **A student who will be declared short of CGPR shall improve it in the next available single chance by appearing in two courses having less than 70 marks i.e. B<sup>-</sup>.**
11. If the student fails to attain a CGPA of 3.00 or more even after improvement chances, after one year or overall within three years, he/she will be given only a Post Graduate Diploma (PGD) instead of M.Phil. degree. Minimum 2.5 CGPA is required for Post Graduate Diploma.
12. After passing the course work with CGPA 3.0 or more, the student will be required to apply through proper channel for confirmation of admission and approval of research proposal within one year.
13. The student will submit a research proposal according to approved format of the ASRB through proper channel along with a copy of the marks certificate issued by the Semester Examination Section.

## **G. Evaluation & Award of M. Phil. & M.S. Degree**

### **i. M.S. (With Course Work) (Terminating degree)**

The student will submit a mark sheet of 30 credit hours course work with CGPA 3.0 or more along with application through proper channel in ASRB for the award of M.S. degree (with course work). They are not eligible for the admission in Ph.D.

### **ii. M.Phil. (With Course and Research Work)**

The student will submit a research thesis which will be evaluated by two external examiners (outside Karachi) appointed by the ASRB. The M. Phil degree shall be awarded by the ASRB subject to positive reports of the supervisor, the two external examiners and a successful oral defense of the thesis by the candidate.

## **DOCTOR OF PHILOSOPHY (Ph.D.)**

### **Requirements and Procedure**

#### **A. Eligibility**

1. M. Phil., M. Pharm., M.S., MBA (with 4 years BBA) or equivalent qualification in the relevant field from an HEC recognized university/institution. There is no requirement to submit Equivalence certificate for the graduates of Public Sector Universities.
2. The admission will be granted on the basis of Test & Interview by the Departmental Research Committee of the concerned department/center/institute for admission in Ph.D. program. Guideline for Interview marks are given in **Annexure-III**.
3. If candidate has already qualified the International (subject) GRE/GAT/NTS, he/she will be exempted from the test. The validity of International (subject) GRE/GAT is for 5 years and NTS is for two years. However, interview will be mandatory.

#### **B. Admission Procedure (Ph.D.)**

1. Candidates will be required to submit the following documents along with the Entrance Test Application Form:
  - i. Photocopy of the consolidated transcript/marks certificate of the last degree examination.
  - ii. Photocopy of Computerized National Identity Card.
  - iii. Two recent passport size photographs.
2. Candidates will be required to appear in the Entrance Test 2019 conducted by the relevant department/center/institute of the University of Karachi. This is mandatory for all the candidates.
3. a) The test shall comprise of the following sections:

<b>Section-I</b>	<b>Subject knowledge</b>	<b>80%</b>
<b>Section-II</b>	<b>English and Communication Skills</b>	<b>20%</b>

  - b) Candidates will be required to score at least 50% marks in each section to be eligible for consideration for *provisional admission*.

**Note: *Qualifying the admission test is no guarantee for admission.***



4. All the students who qualified the test will be required to appear for an interview to be conducted by the respective Departmental Research Committee (DRC).

### **C. Submission of Forms for Provisional Admission**

Candidates selected for provisional admission will be required to submit the following documents along with the complete admission forms duly signed by the Chairperson/Director of the Department/Institute/Center and the Dean of the Faculty concerned:

1. Two recent passport size photographs, duly attested by the Chairperson/Director of the Departments/Institute/ Centers concerned.
2. Photocopies of certificates/ degrees from S.S.C. to M.Phil. or the prerequisite exam.
3. Degree holders of other Universities must submit Migration Certificate.
4. A photocopy of Computerized National Identity Card.
5. A letter of leave for two years from the employer, if the candidate is in service or a certificate of non-employment stating that during research no employment shall be undertaken, executed on a stamp paper worth Rs. 100/- (attested by Notary Public/ Oath Commissioner).
6. Teachers and employees of organization where research work is conducted are exempted from leave. However, a NOC from the employer and a certificate stating that employment is relevant to his/her research from the Chairperson/Director of the concerned Department/ Institute/ Center will be required and should submit within six months after the date of provisional admission.
7. In case of foreign students, NOC from the Ministry of Education, Economic Affairs Division and Ministry of Foreign Affairs, Government of Pakistan, Islamabad and a copy of valid visa and passport.
8. Certificate from the Equivalence Committee, University of Karachi, in case the accreditation status of the prerequisite degrees is not clear.
9. The Admission & Tuition fee mentioned in **Annexure-1**.  
(All the Photostat copies should be attested)

### **D. Duration of Ph.D.**

The duration of Ph.D. is minimum of three (03) and maximum of seven (07) years from the date of provisional admission. However, the ASRB may extend the period upto one year on account of any specific circumstances on the recommendation of supervisor.

### **E. Course Work for Ph.D.**

1. All selected students will be required to complete 18 credit hours course work.
2. Candidates are required to attend at least 75% classes of each course.
3. The student will submit a research proposal according to approved format of the ASRB through proper channel.

### **F. Appointment of Research Supervisor**

Faculty members of University of Karachi/ASRB/HEC approved supervisors will be appointed as research supervisors.

## **G. Evaluation and Award of Ph. D. Degree**

1. During the research, the student must publish at least one research paper from the thesis in any HEC-recognized/refereed/ international/national journal before submission of Ph.D. thesis or a letter of acceptance of impact factor journal. He/she will be required to submit a copy of the published research paper in the ASRB Section before the award of Ph. D. degree.
2. The thesis shall be evaluated by two foreign examiners from HEC approved countries list.
3. The Ph. D degree will be awarded by the ASRB subject to the positive reports from the supervisor, two foreign examiners and a successful public defence followed by the viva voce examination.

## **DOCTOR OF PHILOSOPHY (Ph.D.) LAW**

### **Requirements and Procedure**

#### **Ph.D. LAW**

##### **A. Eligibility**

1. LL.M. or equivalent qualification in the relevant field from an HEC recognized university/institution. There is no requirement to submit Equivalence certificate for the graduates of Public Sector Universities.
2. The admission will be granted on the basis of Test & Interview by the Departmental Research Committee of the concerned department/center/institute for admission in Ph.D. program. Guideline for Interview marks are given in **(Annexure-IV)**.
3. If candidate has already qualified the International (subject) GRE/GAT/NTS, he/she will be exempted from the test. The validity of International (subject) GRE/GAT is for 5 years and NTS is for two years. However, interview will be mandatory.

##### **B. Admission Procedure (Ph.D.)**

1. Candidates will be required to submit the following documents along with the Entrance Test Application Form:
    - i. Photocopy of the consolidated transcript/marks certificate of the last degree examination.
    - ii. Photocopy of Computerized National Identity Card.
    - iii. Two recent passport size photographs.
  2. Candidates will be required to appear in the Entrance Test 2019 conducted by the relevant department/center/institute of the University of Karachi. This is mandatory for all the candidates.
- a) The test shall comprise of the following sections:
1. **Section I: From prescribed syllabus of LL.M. (80%)**  
**Section II: English and Communication Skills (20%)**
    - a) Candidates will be required to score at least 50% marks in sections to be eligible for consideration for *provisional admission*.
    - b) Successful candidates shall be required to appear for interview along with the research proposal.

**Note:** *Qualifying the admission test is no guarantee for admission.*

2. Final merit list of the candidates will be prepared as follows:

- |    |   |            |
|----|---|------------|
| a) | <b>Karachi University Entrance Test</b> | <b>80%</b> |
| b) | <b>Interview</b>                        | <b>20%</b> |

### **C. Submission of Forms for Provisional Admission**

Candidates selected for provisional admission will be required to submit the following documents along with the complete admission forms duly signed by the Chairperson/Director of the Department/Institute/Center and the Dean of the Faculty concerned:

1. Two recent passport size photographs, duly attested by the Chairperson/Director of the Departments/Institute/ Centers concerned.
2. Photocopies of certificates/ degrees from S.S.C. to M.Phil.or the prerequisite exam.
3. Degree holders of other Universities must submit Migration Certificate.
4. A photocopy of Computerized National Identity Card.
5. A letter of leave for two years from the employer, if the candidate is in service or a certificate of non-employment stating that during research no employment shall be undertaken, executed on a stamp paper worth Rs. 100/- (attested by Notary Public/Oath Commissioner).
6. Teachers and employees of organization where research work is conducted are exempted from leave. However, a NOC from the employer and a certificate stating that employment is relevant to his/her research from the Chairperson/Director of the concerned Department/ Institute/ Center will be required and should submit within six months after the date of provisional admission.
7. In case of foreign students, NOC from the Ministry of Education, Economic Affairs Division and Ministry of Foreign Affairs, Government of Pakistan, Islamabad and copy of valid visa and passport.
8. Certificate from the Equivalence Committee, University of Karachi, in case the accreditation status of the prerequisite degrees is not clear.
9. The Admission & Tuition fee are mentioned in **Annexure-1**.

### **D. Duration of the Ph. D. Law**

The duration of Ph. D. is minimum of three (03) and maximum of seven (07) years from the date of provisional admission. However, the ASRB may extend the period upto one year on account of any specific circumstances on the recommendation of supervisor.

### **E. Course Work**

1. All selected students will be required to complete 18 credit hours course work.
2. Students are required to attend at least 75% classes of each course.
3. The student will submit a research proposal according to approved format of the ASRB through proper channel.

### **F. Appointment of Research Supervisor**

Faculty members of University of Karachi/ASRB/HEC approved supervisors will be appointed as research supervisors minimum Ph.D. in the relevant discipline

### **G. Evaluation and Award of Ph. D. Degree**

1. During the research, the student must publish at least one research paper from the thesis in any HEC-recognized/refereed/ international/national journal before submission of Ph.D. thesis or a letter of acceptance of impact factor journal. He/she will be required to submit a copy of the published research paper in the ASRB Section before the award of Ph. D. degree.

2. The thesis shall be evaluated by two foreign examiners from HEC approved countries list, appointed by the ASRB.
3. The Ph. D degree will be awarded by the ASRB subject to the positive reports from the supervisor, two foreign examiners and a successful public defense followed by the viva voce examination.

## **MASTER OF SURGERY(M.S.) DOCTOR OF MEDICINE (M.D.)**

### **I. Guideline for Karachi University Entrance test**

#### **A. Eligibility:**

The applicant on the last date of submission of applications for admission must possess the:

- i. Basic Medical Qualification of MBBS / BDS or equivalent medical qualification recognized by Pakistan Medical & Dental Council.
- ii. Certificate of one year's House Job experience in institutions recognized by Pakistan Medical & Dental Council.
- iii. Valid registration with Pakistan Medical & Dental Council.

#### **B. Karachi University Entrance Test Procedure: -**

- i. Candidates will be required to submit the Entrance Test Application Form along with attested copies of the following documents: -
  - a) Photocopy of the last degree.
  - b) Copy of valid registration certificate from PMDC.
  - c) Photocopy of Computerized National Identity Card.
  - d) Two passport size photographs.
  - e) One year house job certificate required.
- ii. Candidates are required to appear in University of Karachi Entrance Test 2019.

#### **C. Exemption from Entrance Test.**

- i. An application for exemption from Karachi University Entrance test must be submitted to the ASRB with all the relevant documents and a bank draft of prescribed fee (non-refundable processing fee) before the entrance test.
- ii. After due verification and payment of the prescribed fee, ASRB shall grant exemption from KARACHI UNIVERSITY ENTRANCE TEST to those applicants who have acquired the qualifications in Medicine & Dentistry e.g Diplomat American Board, FCPS, FRCP, MRCOG, FRCOG, MRCP, FFDRCSI, FDSRCS or other major degree/equivalent qualification of relevant specialty.

- iii. In all other cases after proper scrutiny and processing, ASRB will decide acceptance or rejection of the request for exemption from KARACHI UNIVERSITY ENTRANCE TEST on case-to-case basis.
- iv. All applicants who are allowed exemption will be issued an exemption certificate on payment of prescribed fee (exemption certificate fee). A copy of this certificate shall have to be attached with the admission application form.
- v. The exemption from KARACHI UNIVERSITY ENTRANCE TEST shall be valid for a period of two years.

**D. Format of KARACHI UNIVERSITY ENTRANCE TEST:**

The entrance test shall have a total of 200 marks and shall be comprised in the following sections:

- i. Section I English and Communication Skills:....20% = 40 Marks
- ii. Section II Subject Knowledge: .....80% = 160 Marks
- iii. [A] MCQs.....50% = 100 Marks  
[B] Video projected clinical assessment .....30% = 60 Marks

**i. Section-I**

This section shall consist of 20 questions from English and Communication Skills.

**ii. Section-II**

**In this section student’s MBBS/BDS level subjects knowledge shall be assessed.**

**a. MCQs paper**

The MCQs paper shall consist of 100 Multiple Choice Questions with single best answer. The MCQ’s will be derived from different subjects as follows:

i.	<b>Basic Sciences</b>	<b>50 MCQs Questions</b>
	Anatomy	10 MCQs
	Physiology & Biochemistry	10 MCQs
	Pathology	10 MCQs
	Pharmacology	10 MCQs
	Bio Statistics & Epidemiology	10 MCQs
ii.	<b>Medicine and Allied ( MD)</b>	<b>50 MCQs Questions</b>
iii.	<b>Surgery and Allied (MS)</b>	<b>50 MCQs Questions</b>
iv.	<b>Dental Surgery ( MS)</b>	<b>50 MCQs Questions</b>

- Each correct answer will carry **1**marks and an incorrect response will result in deduction of **0.5**marks.
- The applicant scoring **50%** of marks will be considered pass in written paper.

b. **Video-Projected Clinical Examination(VPCE).**

- i. The Video - Projected Clinical Examination will consist of 30 video / slides .
- ii. The Video/slides will consist of data, videos and images of patient’s pictures, Histopathology slides, X-rays, CT-Scan, Laboratory test, video clips of patients and patho physiological videos.
- iii. Each correct answer will carry 02 marks and an incorrect response will result in deduction of 01marks.
- iv. The applicant scoring 50 % of marks shall be considered pass in Video-Projected Clinical Examination.

c. **Declaration of Result of Karachi University Entrance Test:**

The Successful candidates will be required to score at least 50% marks in each section, to be eligible for consideration for interview.

d. **Interview:**

Aptitude interview of successful candidate by the Board of Medical Faculty. Final credential of the candidate e.g. no. of attempts in each professional, any gold medals or distinctions, relevant work experience, research experience in a recognized institution, any research article published in a National or International Journal may also be considered on case to case basis.

e. **Final Merit list**

- i. Final Merit list of the candidates for provisional admission will be prepared as follows:

a)	KU-Entrance Test	80% test
b)	Interview	20%

- ii. Karachi University Entrance Test shall be valid for one year.
- iii. Passing in Karachi University Entrance Test shall not automatically guarantee admission to training program which will depend upon availability of supervisors and available training slots in approved Hospitals.
- iv. According to the PM&DC Rules & Regulations, “Candidates shall not be allowed to enroll in two training programs of university and CPSP of the same or different specialties at the same time and to take examination of both institutions”.

- v. Each and every program may not be available at all the institutions. For the matching purposes. It is the responsibility of the candidate himself to make sure that the specialty he is opting for is available in that specific institute. Priority will be given to subjects rather than institutions during allocation.

## **II. Provisional Admission**

After qualifying the test the candidate is required to submit the following along with the admission form:

- i. Two recent passport size photographs duly attested by the Head of Department and Dean, Faculty of Medicine.
- ii. Copy of the valid registration certificate from Pakistan Medical and Dental Council (PMDC).
- iii. Degree holders of other Universities must submit Migration Certificates.
- iv. Photocopy of Computerized National Identity Card.
- v. Certificate of four years leave for training from the employer. This leave will be 5 years in case of sub-specialties. However, if the candidate is in service under his /her supervisor, NOC / 1-year leave /deputation letter from the employer is required.
- vi. Teachers and employees of organizations where research work is conducted are exempted from leave. However, a No Objection Certificate (NOC) from the employer will be required as per rule and should submit within six months after the date of provisional admission.
- vii. A certificate of non-employment stating that during training no employment (other than training program) shall be undertaken/ executed on a stamp paper worth Rs.100/- (attested by Notary Public/ Oath Commissioner).
- viii. In case of foreign students, NOC from the Ministry of Education, Economics Affairs Division and Ministry of Foreign Affairs, Government of Pakistan Islamabad and copy of valid visa and passport.
- ix. Certificate from the Equivalence Committee, University of Karachi in case the accreditation status of the degrees is not clear.
- x. The Admission & Tuition fee mentioned in **Annexure-1**.

## **III. Registration and Enrollment:**

- i. After the completion of all documentation of admission each candidate shall have to select a supervisor and register himself as PG trainee in the Karachi University approved relevant institution.
- ii. Appointment of the Supervisor.  
Each candidate shall have to select a supervisor. The supervisor must fulfill the criteria of the University of Karachi. ASRB shall approve the supervisor on the recommendation of the Board of Faculty of Medicine.

iii. Eligibility of Supervisor:

The Supervisor should have major postgraduate degree / diploma i.e. F.C.P.S., Ph. D, F.R.C.S., F.R.C.P., M.R.C.O.G., M.S., M.D. or equivalent with at least 5 years standing in an academic position / Professor in recognized teaching institution approved by Karachi University and PMDC.

- i. The Supervisor of some other training/research program e.g. F.C.P.S., should not have more than 8 trainees. Total number of students enrolled for the course must not exceed 2 per supervisor/year.
- ii. The Supervisor should follow the structured training program provided by the University of Karachi (ASRB) for his/her candidate, including one year course work and is required to submit report to the ASRB of the candidates quarterly.
- iii. The Supervisor will guide his/her student in synopsis writing as per laid down criteria of the university and will verify the synopsis before submission to the University of Karachi.
- iv. Provisionally admitted Candidates for the selected course after their registration at the relevant institutions shall be enrollment with University of Karachi as per prescribed Enrolment Regulations.

#### **IV. Scheme of Study**

##### **A. Duration of the Course**

The duration of MD/MS course shall be minimum four (4) years and maximum of 07 years (in specialties) or minimum five (5) years and maximum 08 years (in subspecialties) with structured training in a Karachi University approved institution under the guidance of an approved supervisor.

##### **B. Course Design**

The course is structured design in three parts:

- Part A: Basic Medical Sciences
- Part B: Research & Thesis writing.
- Part C : Clinical Training

##### **Part-A. Basic Medical Sciences.**

- i. All selected candidates shall require completing 8 courses of 24 credit hours in two semesters (each of 3 credit hours) in Basic Medical Sciences.



- ii. Subjects to be taught shall be Anatomy, Physiology, Biochemistry, Pharmacology in first semester and Pathology, Medical Ethics, Behavioral Sciences, Biostatistics & Research Methodology in second semester.
- iii. Note: The clinical training in fundamental concepts of MS/MD Course and it shall start from the 1st day of the enrollment.

## **Part-B: Research & Thesis writing**

### **a. Submission of Synopsis**

- i. The Synopsis of research project shall be submitted at the end of first year after qualifying the Part A -examination of MD/MS program, according to approved format of the ASRB through proper channel along with a copy of the marks certificate issued by the Semester Examination Section.
- ii. Each synopsis submitted must be approved by an Institutional Scientific & ethical Review Committee.
- iii. Each candidate shall submit a synopsis dealing with his/her relevant subject or any of its branches.
- iv. The research topic must consist of a reasonable sample size and sufficient numbers of variables to give training to the candidate to conduct research, to collect & analyze the data.
- v. The supervisor shall also submit a certificate to the effect that the facilities did exist at the institute for the work embodied in the thesis and that the work has not already been submitted as a thesis to any other university.

### **b. Submission of Thesis**

- i. Thesis shall be submitted by the candidate duly recommended by the Supervisor.
- ii. The candidate shall submit a declaration to the effect that thesis embodies the work conducted by the candidate.
- iii. The minimum duration between approval of synopsis and submission of thesis shall be one year, but the thesis cannot be submitted later than 7 years of enrolment.
- iv. The research thesis must be compiled and bound in accordance with the Thesis Format Guidelines approved by the University.
- v. During the research, the student must publish at least one research paper from the thesis in any HEC-recognized/refereed/ international/national journal of repute and submit a copy of it along thesis or submit a letter of acceptance in case of ISI index journal with the thesis to ASRB. However, a copy of the published research paper is to be submitted before the award of the degree.
- vi. The research thesis will be submitted along with the fee prescribed by the University.

## **I. Part-C: Clinical Training**

- i. Clinical training is structured for 1<sup>st</sup>, 2<sup>nd</sup>, 3<sup>rd</sup> and 4<sup>th</sup> (5<sup>th</sup> in subspecialties) calendar years although the clinical training shall be started from 1<sup>st</sup> year.
- ii. The aim of MD/MS programme is to train residents to acquire the competency of a specialist in the relevant field so that they can become good teachers, researchers and clinicians in their specialty after completion of their training in relevant fields.
- iii. The candidate shall undergo clinical training to achieve educational objectives that is knowledge & skills along with rotations in relevant field, however each specialty has its own learning objective to achieve specific learning outcomes.
- iv. During this training period In addition to the conventional teaching methodologies interactive strategies like conferences will also be introduced to improve both communication and clinical skills in the upcoming consultants.
- v. Conferences must be conducted regularly as scheduled and attended by all available faculty and residents.
- vi. Teaching modalities includes :lectures, seminar presentation , journal club presentation, Grand rounds, Clinical case Conference, Assignment, Skill teaching in operation theaters ,ICU, emergency and wards settings, Bedside teaching and ward rounds ,OPD and follow up clinics, Long and short case presentations, Core curriculum meetings & Annual grand meeting
- vii. Maintenance of Log Book / assignments.
  - a) The residents must maintain a log book and get it signed regularly by the supervisor. A complete and duly certified log book should be part of the requirement to sit for MD/MS examination.
  - b) Log book should include adequate number of diagnostic and therapeutic procedures observed and performed, the indications for the procedure, any complications and the interpretation of the results, routine and emergency management of patients, case presentations in CPCs and journal club meetings.
  - c) The Supervisor shall certify every year that the Log Book is being maintained and signed regularly.
  - d) The Log Book will be submitted in the Advanced Studies & Research Board before examination.

## **C. Exemption from training, Maintenance of Log Book & Examination**

- i) An application for exemption from training, Log Book and examination must be submitted to the ASRB with all the relevant documents and a bank draft of prescribed fee (non-refundable processing fee).

- ii) The Candidates having FRCP, FRCS, FRCOG, FCPS or other major degree/ equivalent qualification in relevant specialty shall be exempted from Part-A course work and examination and written papers of Part-C examination. Candidates shall also be exempted from Maintenance of log Book. Their training period will be reduced to 2 years for MS/MD specialties and 3 years for relevant subspecialty. However, the candidate shall have to appear for a viva voce, Practical and clinical examination before the panel of examiners, appointed by ASRB on the recommendation of the Board of faculty of Medicine.
- iii) All other cases will be treated on a case-to-case basis after proper scrutiny and processing by ASRB.

## **V. Examination:**

The examination shall consist of three parts:

- A. Basic sciences examination.
- B. Thesis evaluation and defense of thesis.
- C. Theory and clinical/practical examination.

### **Part A-Basic Sciences Examination:**

- i All candidates admitted in MD / MS course shall appear in Part-A examination at the end of each semester
- ii All selected candidates will be required to complete 8 courses of 24 credit hours in two semesters (each of 3 credit hours).
- iii Candidates are required to attend at least 75% classes of each course.
- iv The student has to pass the course work with CGPA 3.0 or more. In case the student fails to get the desired CGPA, he/she will be allowed to improve the grade as per semester rule. Only two chances for improvement of each course will be given. One chance in regular and second in the subsequent year from the date of provisional admission.
- v The candidate who fails to pass the examination in 2 consecutive attempts in each subject availed or un-availed, shall be dropped from the course.
- vi Subjects to be examined shall be Basic Sciences (Anatomy, Physiology, Biochemistry, Pharmacology, In first semester and Pathology, Medical Ethics, Behavioral Sciences, Biostatistics & Research Methodology in second semester.

- vii To be eligible to appear in each semester examination the candidate must submit,
  - a. Duly filled, prescribed Admission Form to the Controller of Examinations duly recommended by the Principal/Head of the Institution in which he/she is enrolled
  - b. A certificate by the Principal/Head of the Institution, that the candidate has attended at least 75% of the lectures, seminars, practical/clinical demonstrations
- viii The examination shall have two components:
  - a. Paper-I MCQs (single best) 100 Marks
  - b. Paper-II SEQs 100 Marks
- ix To be declared successful in Part-A. Examination the candidate must secure 60% marks in each paper

### **Part B. Thesis Evaluation and Defense Examination.**

- i) All candidates admitted in MD/MS course shall appear in Part-B thesis examination at the end of 3<sup>rd</sup> year /4<sup>th</sup> year (Subspecialties) of their training course.
- ii) Only those candidates shall be eligible for thesis evaluation and Defense who have passed Part A Examinations.
- iii) The examination shall consist of two parts i.e. .thesis evaluation and defense of thesis.

#### **Thesis Evaluation**

- i) During the research the student must publish at least one research paper from the thesis in any HEC/ PMDC recognized /refereed/international /national journal before submission of thesis or a letter of acceptance of impact factor journal. He/she will be required to submit a copy of the published research paper in the ASRB section before award of degree.
- ii) The thesis shall be evaluated by two foreign examiners from the HEC approved countries list, appointed by the ASRB on the recommendation of the Board of Faculty of Medicine.
- iii) The thesis will be approved subject to the positive report from the supervisor and two foreign examiners. In the event of a disagreement between the examiners, ASRB shall appoint a third examiner and the opinion of two of the three examiners shall prevail.

#### **Thesis Defense Examination.**

- i) After the approval of thesis by the evaluators, the thesis defense examination shall be held on such date as may be notified by the Controller of examinations. The Controller of Examinations shall make appropriate arrangements or the conduct of thesis defense examination in consultation with the supervisor, who will co-ordinate the defense examination.

- ii) The thesis defense examination shall be conducted at Dean's Office by two External Examiners who shall submit a report whether the candidate defense the thesis satisfactory or unsatisfactory. The supervisor shall act as coordinator.
- iii) After acceptance of thesis and satisfactory defense of thesis examination, the candidate shall be permitted to appear in Part-C examination.

## **Part C - Clinical Examination**

- i) All candidates admitted in MS/MD course shall appear in Part-C (clinical) examination at the end of structured training programme (at the end of fourth year/ fifth year) and having passed the Part-A and Part-B examination.
- ii) The examination shall be held on biannual basis.
- iii) The candidate who fails to pass the examination within 7 years/8 years of enrollment shall be dropped from the course.
- iv) To be eligible to appear in Part-C examination the candidate must submit.
  - a. Prescribed Admission Form (duly filled) to the Controller of Examinations duly recommended by the Principal/Dean/Head of the Institution in which he/she is enrolled.
  - b. A certificate by the Principal/Dean/Head of the Institution, that the candidate has attended at least 75% of the lectures, seminars, practical/clinical demonstrations;
  - c. Original Log Book complete in all respect and duly signed by the Supervisor (for Oral & practical/clinical Examination);
  - d. Certificates of having passed the Part-A& Part-B examination.
- v) The Part-C examination shall have the following components:
  - a. Written Papers .....300 marks
  - b. Oral & practical/clinical examination .....300 marks
  - c. Log Book Evaluation .....200/250 marks (50 marks per year)

### **a. Written Papers**

- i) There shall be three written papers of 100 marks each.
- ii) Each paper shall have problem-based short/modified essay questions and MCQs.
- iii) The written papers shall be prepared by 3 external examiners appointed by ASRB on recommendation of Board of Faculty of Medicine.
- iv) Only those candidates, who pass in theory papers, will be eligible to appear in the Oral & Practical/ Clinical Examination.

## **b. Oral & practical/clinical examination**

- i. Total marks of Oral & practical/clinical examination is 300 and divided in the following components
  - a. 1 Long Case 100 marks
  - b. 4 Short Cases 100 (25 marks each)
  - c. OSCE /Viva Voce 100 marks
- ii. A viva voce and clinical/ practical examination conducted by a panel of three examiners approved by the ASRB on recommendation of the Board of Faculty of Medicine. The Supervisor will not be an examiner.
- iii. The candidates, who have passed written examination but failed in Oral & Practical/ Clinical Examination, will re-appear only in Oral & Practical / Clinical examination.
- iv. The maximum number of attempts to re-appear in oral & practical /clinical Examination alone shall be three, after which the candidate shall have to appear in both written and oral & practical/clinical examinations as a whole.
- v. Only five total attempts shall be allowed to a candidate within three years of completion of training.

## **c. Log Book/Assignments:**

- i) Throughout the length of the course, the performance of the candidate shall be recorded on the Log Book.
- ii) The Supervisor shall certify every year that the Log Book is being maintained and signed regularly.
- iii) The Log Book will be developed & approved by the Advanced Studies & Research Board on the recommendation of board of studies faculty of Medicine.
- iv) The evaluation will be maintained by the Supervisor (in consultation with the Co-Supervisor, if appointed).
- v) The performance of the candidate shall be evaluated on annual basis, e.g. 50 marks for each year. The total marks for Log Book shall be 200. The log book shall reflect the performance of the candidate on following parameters:
  - Year wise record of the competence of skills.
  - Year wise record of the assignments.

- Year wise record of the evaluation regarding attitude & behavior
  - Year wise record of journal club / lectures / presentations / clinico-pathologic conferences attended & / or made by the candidate.
- vi) To be declared successful in Part-C examination the candidate must secure 60% marks in each component.

**d. Part C examination for sub-specialty.**

Part C examination for sub-specialty shall be divided into two parts:

- i) Part – C-1
- ii) Part – C-II

Part-C-I shall be held after completion of two years of training in the following manner.

- a. Written ..... 200 Marks
- b. OSEC ..... 50 Marks
- c. Clinical Exam ..... 100 Marks
- d. Log Book ..... 80 Marks(40 each year)

Part-C-II shall be held at the end of 5 years and have the following components:

- a. Written ..... 300 Marks
- b. Oral, Practical & Clinical ..... 300 Marks
- c. Log Book ..... 120 Marks (40 each year)

**VI. Award of MS/MD Degree**

After successful completion of the structured course of MS/MD and qualifying Part-A, Part-B and Part-C examinations, the degree with title MS/MD shall be awarded.

**The admission to the Doctor of Medicine (M.D.) is being offered for specialization in the following fields:**

S.No	Specialty	S.No	Specialty
1	Cardiology	11	Hematology
2	Community Dentistry	12	Oral Medicine
3	Community Medicine	13	Oral Biology
4	Dental Material	14	Oral Pathology
5	Dermatology	15	Pediatrics
6	Endocrinology	16	Pulmonology
7	Gastroenterology	17	Psychiatry
8	Internal Medicine	18	Physiology
9	Neurology	19	Radiology
10	Nephrology		

**The admission to the Master of Surgery (M.S.) is being offered for specialization in the following fields:**

<b>S.No</b>	<b>Specialty</b>	<b>S.No</b>	<b>Specialty</b>
1	Anesthesiology	10	Ophthalmology
2	Cardiac Surgery	11	Orthopedic Surgery
3	Otorhinolaryngology	12	Period ontology
4	Oral and Facio Maxillary Surgery	13	Plastic Surgery
5	Gynecology & Obstetrics	14	Prosthodontics
6	General Surgery	15	Thoracic Surgery
7	Neurosurgery	16	Urology
8	Operative Dentistry		
9	Orthodontics		

**Karachi University Approved Hospitals**

1. Liaquat National Hospital, Karachi
2. Jinnah Postgraduate Medical Center, Karachi
3. Abbasi Shaheed Hospital, Nazimabad, Karachi
4. Lyari General Hospital, Karachi
5. National Institute of Cardiovascular Diseases (NICVD)
6. National Institute of Child Health (NICH)
7. Karachi Institute of Heart Diseases
8. Institute of Behavioral Sciences
9. National Institute For Kidney and Urological Diseases.



## ADMISSION SCHEDULE-2019

### M.Phil., M.S., Ph.D., M.S.(Surgery) & M.D.(Medicine)

1.	<b>Date of Advertisement</b>	<b>Sunday 9<sup>th</sup> June 2019</b>
2.	<b>Issuance &amp; submission of admission forms</b>	<b>Monday 10<sup>th</sup> June 2019 to Tuesday 18<sup>th</sup> June 2019</b>
3.	<b>List of eligible candidates for KU entrance test, display on website and Departmental notice boards</b>	<b>Tuesday 2<sup>nd</sup> July 2019</b>
4.	<b>Collection of admit cards by the candidates eligible for KU entrance test from the office of the Department concerned</b>	<b>Wednesday 3<sup>rd</sup> July 2019 to Friday 12<sup>th</sup> July 2019</b>
5.	<b>Karachi university entrance test for M.Phil., Ph.D., M.S. (Master of surgery) &amp; m.d. (Doctor of Medicine)</b>	<b>Sunday 14<sup>th</sup> July 2019</b>
6.	<b>Display of list of successful candidates of Karachi University entrance test on its website.</b>	<b>Thursday 18<sup>th</sup> July 2019</b>
7.	<b>Interview of Successful Candidates at their respective departments/ centers/ institutes</b>	<b>Friday 19<sup>th</sup> July 2019 to Friday 26<sup>th</sup> July 2019</b>
8.	<b>Display of final merit list of successful candidates for provisional admission on website</b>	<b>Wednesday 31<sup>st</sup> July 2019</b>
9.	<b>Issuance &amp; submission of provisional admission forms &amp; payment of fee documents etc.</b>	<b>Thursday 1<sup>st</sup> August 2019 to Friday 9<sup>th</sup> August 2019</b>
10.	<b>Commencement of semester</b>	<b>Thursday 15<sup>th</sup> August 2019</b>

### Academic Calendar

#### First Semester 2019

Teaching	(Thursday) 15 <sup>th</sup> August to (Friday) 29 <sup>th</sup> November 2019
Semester Examinations	(Wednesday) 4 <sup>th</sup> December to (Friday) 27 <sup>th</sup> December, 2019
Semester Break	(Monday) 30 <sup>th</sup> December to (Sunday) 19 <sup>th</sup> January, 2020

#### Second Semester 2019

Teaching	(Monday) 21 <sup>st</sup> January to (Friday) 31 <sup>st</sup> May 2020
Semester Examinations	(Monday) 10 <sup>th</sup> June to (Friday) 28 <sup>th</sup> June 2020
Semester Break	(Saturday) 29 <sup>th</sup> June to (Wednesday) 31 <sup>st</sup> July, 2020

**FEE STRUCTURE – 2019**  
**Social Sciences, Islamic Studies & Education**

<b>For M. Phil. Students</b>		
<b>S.No.</b>		<b>Fee for 2019</b>
01	Processing/Test Fee	4,500
02	Admission Fee	20,000
03	Semester Fee (per six month)	30,000
04	Departmental Charges (per semester)	3,500
05	Thesis Evaluation/Viva Examination Fee	35,000
<b>For Ph.D. Students</b>		
01	Processing/Test Fee	4,500
02	Admission Fee	20,000
03	Semester Fee (per six month)	35,000
04	Departmental Charges (per semester)	5,500
05	Thesis Evaluation/Viva Examination Fee	65,000

**FEE STRUCTURE-2019**  
**Science, Pharmacy, Management & Administrative Sciences**

<b>For M. Phil. Students</b>		
<b>S.No.</b>		<b>Fee for 2019</b>
01	Processing/Test Fee	4,500
02	Admission Fee	20,000
03	Semester Fee (per six month)	30,000
04	Departmental Charges (per semester)	5,500
05	Thesis Evaluation/Viva Examination Fee	35,000
<b>For Ph.D. Students</b>		
01	Processing/Test Fee	4,500
02	Admission Fee	20,000
03	Semester Fee (per six month)	35,000
04	Departmental Charges (per semester)	9,000
05	Thesis Evaluation/Viva Examination Fee	65,000

**FEE STRUCTURE-2019**  
**Law, Medicine & Foreign Students**

<b>Ph.D. (LAW)</b>		
<b>S.No</b>		<b>Fee for 2019</b>
01	Processing/Test Fee	10,000
02	Admission Fee	20,000
03	Semester Fee (per six month)	35,000
04	Thesis Evaluation/Viva Examination Fee	65,000

**FEE STRUCTURE-2019**

<b>M.S. &amp; M.D.</b>		
<b>S.No.</b>		<b>Fee for 2019</b>
01	Entrance Test Processing Fee	10,000
02	Entrance Test exemption Fee	11,000
03	Admission Fee	55,000
04	Semester Fee (per six month)	40,000
05	Exemption from training and examination fee	55,000
06	Thesis Evaluation/Viva Examination Fee	65,000

<b>Foreign Students</b>		
<b>S.No.</b>	<b>Name of Faculty (Semester fee per year)</b>	<b>Fee for 2019</b>
01	Faculty of Social Sciences, Education,	US\$ 5,000/-
02	Faculty of Science, Pharmacy, Management & Administrative Sciences	US\$ 7,200/-
03	Faculty of Medicine, Law	US\$ 10,000/-
04	Faculty of Islamic studies and Education	US\$ 5,000/-

**ADVANCED STUDIES RESEARCH  
UNIVERSITY OF KARACHI**

<b><u>INTERVIEW CRITERIA FOR M. Phil. / M.S. (Course Work)</u></b>							
<b>Research Knowledge, Experience and Aptitude</b>				Oral Communi cation	Proposed Research Plan/Project	Total	
Research Experience (Thesis/ project)	Research Dissemination (poster/project)	Publication					
Max Marks	04	02	02	07	05	20	
Marks obtained							
Comments							
Total Marks Obtained out of 20 =							

**CUMULATIVE PERCENTAGE**

Name of Student :		
Form No:		
Percentage of last obtained degree ( % )	( )% x 0.5 =	(A)=
Total marks obtained in KU Admission Test 2019 ( % )	( )% x 0.3=	(B)=
Total marks obtained in the interview out of 20 ( )	( )	(C)=
Total	(A+B+C) =	

**Name and Signature of DRC Members**

- |          |          |
|----------|----------|
| 1. _____ | 4. _____ |
| 2. _____ | 5. _____ |
| 3. _____ | 6. _____ |

Name and Signature of Chairperson \_\_\_\_\_

**ADVANCED STUDIES & RESEARCH BOARD  
UNIVERSITY OF KARACHI**

<b><u>INTERVIEW CRITERIA FOR Ph. D.</u></b>						
	<b>Research Knowledge, Experience and Aptitude</b>			Oral Communication	Proposed Research Plan/Project	Total
	Research Experience (thesis/project)	Research Dissemination (poster/project)	Publication			
Max Marks	10	20	10	30	30	100
Marks obtained						
Comments						
Total Marks Obtained out of 100 =						

Name of Student:	
Form No:	
Department/Institute/Center	
Total marks obtained in interview out of 100	

**Name and Signature of DRC Members**

- |          |          |
|----------|----------|
| 1. _____ | 4. _____ |
| 2. _____ | 5. _____ |
| 3. _____ | 6. _____ |

**Name and Signature of Chairperson** \_\_\_\_\_



**ADVANCED STUDIES AND RESEARCH BOARD  
UNIVERSITY OF KARACHI**

**No. ASRB/Exams/**

1. As per KU rules all M.Phil. students are required to complete eight courses of 24 credit hours in two semesters. In each semester there will be 4 courses of 3 credit hours each.
2. As per KU rules all M.S. students are required to complete ten courses of 30 credit hours in four semesters. In 1<sup>st</sup> year 8 courses of 24 credit hours in two semesters and in 2<sup>nd</sup> year 2 courses of 6 credit hours in two semesters.
3. Each student will be required to take 8 courses. There is no restriction to take 50% interdisciplinary courses. However, DRC of the respective department may reconsider this policy according to its specific need.
4. All newly admitted M.Phil., M.S. and M.S. (Surgery)/ M.D. (Medicine) students are required to submit the following information duly endorsed by the course Incharge and Chairperson/Director of parent department/ Institute/ center in the Semester Examination Section.

**SEMESTER - I / II**

S. No.	Course No.	Course Title	Name of Department offering the courses	Signature of course Incharge
1				
2				
3				
4				
5				
6				

Name of Student: \_\_\_\_\_

Name of Department (Major): \_\_\_\_\_

Date: \_\_\_\_\_

**Chairperson/ Director  
(Parent Department)**