

MY YOUNG FRIENDS

I LOOK FORWARD TO YOUTH THE REAL MAKERS OF PAKISTAN. DO NOT BE EXPLOITED AND DO NOT BE MISLED. CREATE AMONGST YOURSELVES COMPLETE UNITY AND SOLIDARITY. SET AN EXAMPLE FOR WHAT YOUTH CAN DO. YOUR MAIN OCCUPATION SHOULD BE IN FAIRNESS TO YOURSELF IN FAIRNESS TO YOUR PARENTS IN FAIRNESS TO THE STATE TO DEVOTE YOUR ATTENTION TO YOUR STUDIES. IF YOU FRITTER AWAY YOUR ENERGIES NOW YOU WILL ALWAYS REGRET. AFTER YOU LEAVE THE PORTALS OF YOUR UNIVERSITIES AND COLLEGES THEN YOU CAN PLAY YOUR PART FREELY AND BUILD YOURSELF AND THE STATE.

Muhammad Ali Jinnah

Founder of Pakistan

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<u>Registrar</u>	
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Deans of Faculties	
<i>Faculty of Arts</i>	
Prof. Dr. M Shamsuddin	926136 2
<i>Faculty of Administrative & Management Sciences</i>	
Prof. Dr. Abu zar Wajidi	926136
<i>Faculty of Education</i>	
Dean Faculty of Arts (Caretaker)	926136 2
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Dean Faculty of Science (Caretaker)	924320 6
<i>Faculty of Islamic Studies</i>	
Prof. Dr. Jalaluddin Ahmed Noori	924322
<i>Faculty of Law</i>	
Prof. Syed Mamnoon Hasan	926200 2
<i>Faculty of Medicine</i>	
Prof. Dr. Saadiya Aziz Karim	662837
<i>Faculty of Pharmacy</i>	
Prof. Dr. M. Waseemuddin	924317
<i>Faculty of Science</i>	
Prof. Dr. Shahana Urooj Kazmi	924320

Admission Committee

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Prof. Dr. Abuzar Wajidi	<i>Dean Faculty of Administrative & Management Sciences</i>
<u>Director Admissions:</u>	
Prof. Dr. Saleem Shahzad	<i>Department of Agriculture & Agribusiness Management</i>
Dr. Zaheeruddin	<i>Department of Physics</i>
	<i>Co-Directr</i>
<u>Members:</u>	
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Prof. Raees Alvi	<i>Registrar</i>
Prof. Dr. Mansoor Ahmed	<i>Equivalence Committee</i>
Prof. Dr. Tanveer Khalid	<i>Advisor Students Affairs</i>
Dr. Khalid Iraqi	<i>Advisor Campus Security Affairs</i>
Prof. Dr. M. Javed Zaki	<i>Advisor Semester Cell</i>

Prof. Dr. Shafiq-ur-Rahman	<i>Department of Economics</i>
Prof. Dr. Nasreen Aslam Shah	<i>Center of Excellence in Women Studies</i>
Prof. Dr. Abid Hasnain	<i>Department of Food Science & Technology</i>
Mr. S.M. Khalid Jamal	<i>Department of Computer Science</i>
Mr. Zahida Farhad	<i>Department of Applied Chemistry</i>
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CONTENTS

Introduction	1	Faculty of Engineering	45
Students Affairs	1	Faculty of Islamic Studies	47
Discipline Committee	1	Faculty of Management & Administrative Sciences	51
Facilities for the Students	2	Faculty of Pharmacy	57
Fee Concession and Scholarship	2	Faculty of Science	59
Libraries	2	Appendix – A	105
Transport	2	Appendix – B	110
Hostel	2	Appendix - C	111
Co-Curricular activities	2	Appendix – D	113
Language Certificate & diploma Courses	2	Appendix – E	115
Duration of Courses	3	Appendix – F	121
System of Studies	3	Appendix –G Affidavit	122
Instructions for Foreign Students	3	Appendix –H Evening Program	123
Admission Policy	4	Appendix –I Closing Percentages of BS (Hons.)	
B.S. (Honours) Program	6	& Pharm-D Admissions – 2009	124
B.S. (Third year) / Masters Program	8	Appendix –J Closing Percentages of BS (Third Year)	
Procedure of Admission	8	& Masters Admissions – 2009	126
Teaching and Research	10	Appendix –K Important Semester Rules	128
Faculty of Arts	11	Appendix – L Fee Structure	130

ACADEMIC CALENDAR 2010

First Semester

Introduction Day	January 01, 2010
Teaching	January 02– May 8, 2010
Semester Examinations	May 10 – 31, 2010
Summer Holidays	June 1 – July 15, 2010

Second Semester

Teaching	July 16 – November 13, 2010
Semester Examinations	November 15 – December 05, 2010
Winter Holidays	December 06 – 31, 2010

- Note:** a) *Dates for extra curricular activities week shall be announced later*
b) *The University of Karachi shall observe all Federal and Provincial gazetted holidays, but examinations shall be held as per schedule*
c) *Mid-term examinations shall be held during 8th and 9th weeks of each semester*

INTRODUCTION

The University of Karachi was established in June 1951 under the Karachi University Act in a few dilapidated buildings in a congested area of Karachi. Later, an area of 1200 acres was acquired to set up a permanent Campus. After the completion of the first phase of construction, the University was shifted at the present place in 1960. Today the University is recognized as a premier centre of learning and research in the Subcontinent and in the Third World. A number of scientists and scholars affiliated with the University are working in important positions both within and outside Pakistan and have won recognition and acclaim. One of the institutes of the University has got the distinction of being made the Centre of the Third World Academy of Sciences. Students from several foreign countries are also pursuing for the Masters and Doctorate degrees. Because of high academic and research standards of the University a large number of students from Karachi and other parts of the country apply for admission here. Keeping in view a very high number of applicants, the University has started evening classes in several departments at BS and Masters levels and a Directorate of Evening Program was established to

control and run Evening Program. The schedule of Admissions under this program will be announced separately through the national newspapers in the month of November for BS program and in the month of May for Masters program **(See Appendix-H).**

At present teaching at the University campus is conducted under six faculties: Faculty of Arts, Faculty of Science, Faculty of Islamic Studies, Faculty of Administrative & Management Sciences, Faculty of Engineering and Faculty of Pharmacy. There are 52 departments and 19 research institutes/ centres, which are imparting education to more than 24,000 students including students from foreign countries. The faculty comprises of more than 600 highly qualified and experienced teachers; many of them have obtained higher degrees from abroad and enjoy a high repute internationally. The non-teaching staff comprises more than 1700 people to help with administrative and other matters.

The University of Karachi is also an affiliating and examining body and at present, 145 colleges and institutions are affiliated to the University. The courses of studies for these institutions are approved by the University and examinations are also conducted under its auspices. The

University conducts examinations of about 150,000 students studying in these colleges/institutes, prepare their results and award degrees.

Students Affairs

To look after students affairs, in general, and to supervise their extra curricular activities, an office of Advisor Students' Affairs is situated at the first floor of the Administration block. Teachers and the staff are available for the guidance to students.

In order to help passing out students in securing jobs and solve their practical problems, an office of Students Guidance, Counseling and Placement Bureau is functioning at the first floor of a building facing Masjid-e-Ibrahim. The Bureau also conducts preparatory classes, every year, for those who wish to appear in the CSS examinations or to develop proficiency in the English language.

Discipline Committee

There is a discipline committee to maintain law and order situation and to ensure a proper academic environment. The Committee takes notice of the cases of infringement of law and order, and undesirable activities at the campus, and takes disciplinary action against the offenders. The Vice-Chancellor is Chairman of this Committee while the

Advisor Students' Affairs is its member secretary. The Committee meets several times a year to review the prevailing law and order situation and other related matters and take appropriate decisions.

Facilities for the Students

Fee Concession and Scholarship: In spite of financial constraints, the University offers a number of scholarships and fee concession to deserving students. The deserving students can be granted fee concessions on the basis of their academic performance in the first semester. Award of scholarship on the basis of merit-cum-need is decided by the competent authority of the University.

In order to facilitate the meritorious and needy students by providing financial support for their studies leading to BS and Masters at the University of Karachi, "Students Financial Aid Office" (SFAO) has been established at room no. 2, Ground Floor, Administration Block. A limited number of various scholarships and fellowships, sponsored by different national and international agencies, are regularly announced from this office which is displayed on the notice boards of the respective departments. All interested candidates are encouraged to apply so that their need can be determine in order to provide financial support.

Libraries: Each department and institute at the campus has its own seminar library that contains book related to the subject taught in the department. The main library "Dr. Mahmud Husain Library" is situated near the administration block that provides facility to consult thousands of books, journals and M.Phil./Ph.D. theses to students of various departments of the University. LEJ Digital Library is also available at the campus that can be used by all the students to access a large number of books or journals on-line.

Transport: It is not possible to provide transport facility to over 24,000 students of the University who come to the Campus from various parts of the city. However, the University provides a limited transport facility to its students. Schedule of point buses that provide pick and drop facility to the students at highly subsidized fare is announced by the transport office in the beginning of each semester.

Boys Hostel: Hostel facility is available only for foreign students.

Girls Hostel: A limited number of rooms are available for foreign and Pakistani (out side Karachi) female students.

Co-Curricular activities: The University organizes different programs to promote participation of its students in co-curricular activities. The schedule is announced by the office of the Students' Advisor office. Sports facilities like grounds for Hockey, Cricket and Football, courts for Squash, Badminton, Tennis and Basket ball are also available at the campus.

Language Certificate & Diploma Courses:

Bearing in mind the importance of foreign languages in term of educational, cultural and professional development, students of Karachi University are encouraged to learn other languages in addition to the languages they already know. The Faculty of Arts offers Diploma courses in Arabic, Sindhi, Urdu, Italian and Persian, and certificate courses in Arabic, Bengali, Hindi, Persian, Sindhi, Spanish, Turkish and Urdu. Only those students can take admission in a diploma course who hold a certificate in that language. First and Second Year students are not eligible to take admission in these programs. However, Japanese, Italian and French can be taken as minor subjects by BS First Year students.

DURATION OF COURSES

- The duration of courses in the University is four years for BS (Hons.) and five years for Pharm-D (Pharmacy).
- Students who complete B.A. (Pass), B.Sc. (Pass) and B.Com (Pass) from affiliated or recognized colleges / institutes are admitted to third year of the BS program and after successful completion of two years studies, a BS degree will be awarded to them.
- However, in Departments of Public Administration, Business Administration, Genetics, Quran-o-Sunna, the eligible candidates will be admitted to MPA, MBA, M.Sc. and M.A. programs, respectively. The admitted students are required to successfully complete two years study for award of the degree.
- Departments of Quran-o-Sunna where the BS (Hons.) program will be initiated from this year will also offer admissions to two years M.Sc., B.L.I.S. or M.A. programs to the eligible candidates during 2009.
- A student, who has completed one year course of B.L.I.S., can complete M.L.I.S. in one year.

SYSTEM OF STUDIES

- The University follows the semester system. One academic year consists of two semesters (the details are given in the Academic Calendar in the beginning of this brochure).
- In the faculties of Arts, Science, Administrative & Management Sciences, Engineering and Islamic Studies, a student of BS has to complete a total of 18 credit hours during one semester, whereas, a student of Masters has to complete a total of 15 credit hours during one semester.
- However, in the Faculty of Pharmacy, the student has to complete 20 credit hours in each semester.
- A student admitted to BS (third year) or a Masters program after B.A.(Pass), B.Sc.(Pass) or B.Com.(Pass) will have to complete 72 credit hours for BS, and 60 credit hours for M.A., M.Sc., MPA or MBA programs, respectively.
- Students who after completing their B.A. (Hons.), B.Sc. (Hons.) or B.Com (Hons.) programs seek admission to another department will be admitted to BS (Third year) or M.A., M.Sc., MPA or MBA previous. Such students will also successfully complete 72 credit

hours for BS, and 60 credit hours for M.A., M.Sc., MPA or MBA programs, respectively.

- Every student taking admission in the University has to be conversant with the University rules and abide by them. Rules governing attendance and promotion are of special importance. Under these rules:

1. There is a minimum attendance requirement (75%) to appear in the terminal examination of any subject/course. Please see 'Semester Examination Rules' for details; booklet is available at the University Bookshop.
2. A student will not be promoted to the next higher class unless he/she clears 80% of the courses. Admissions to masters program will not be granted unless the student successfully completes the bachelors program. This rule is being strictly followed as per the decision of the University's Academic Council.

Instructions for Foreign Students

Subject to eligibility, foreign students are admitted to this University on nomination

from the Ministry of Foreign Affairs and Ministry of Education, Pakistan. After admission foreign students are required to complete a certificate course in Urdu Language for foreign students organized by the Department of Urdu, University of Karachi.

ADMISSION POLICY

Admissions in Karachi University are granted according to merit under K, S and P categories. However, certain seats are reserved for Balochistan, Interior Sindh, FATA, Azad Jammu & Kashmir and Northern Areas, Armed Forces, and Children of Karachi University Teachers and Employees, Disabled Persons and Sports. For reserved seats also merit is the only criterion.

Note:

- 1. Subject to eligibility, admissions on reserved seats for FATA, Northern Areas and Azad Jammu & Kashmir are granted through nominations from the Kashmir Affairs & Northern Areas Division, Government of Pakistan, Islamabad.*
- 2. Similarly, Admissions on reserved seats for the Armed forces are granted through nominations from the General Head Quarters.*

Admissions on Merit Seats

Since the number of applicants is much higher than the number of available seats, under the University rules, the applicants have been divided into three categories i.e. **K**, **S**, and **P**.

1. Category “**K**” refers to those applicants who have passed their Secondary School Certificate (SSC), Higher Secondary Certificate (HSC) or equivalent, and graduation degree from educational institutions situated in Karachi and also recognized or affiliated by the University of Karachi.

Five percent (5%) seats have been reserved for applicants who have completed their graduation from other degree awarding institutions situated in Karachi and recognized by the University of Karachi.

- .2. Category “**S**” refers to those applicants who have passed at least one of the certificates (SSC or HSC) or degree examinations from a recognized educational institution in the Province of Sindh (excluding Karachi).

3. Category “**P**” refers to those applicants who have passed at least one of the certificates (SSC or HSC) or degree examinations from a recognized educational institution outside the Province of Sindh or Pakistan.

Preference in admissions is given to “**K**” category candidates. In case seats are left vacant, “**S**” category candidates are considered. If seats are still available then consideration is given to “**P**” category candidates.

Admission in the University are given strictly as per above mentioned criteria of categories

Change of Category

Candidates who fulfill the following conditions can apply for change of category from **S** or **P** to **K**.

1. Those students whose father or mother is domiciled in Karachi, but who have passed the pre-requisite examination from abroad that were conducted by any registered International Institution or any Pakistani Board or University, will have to produce their father’s or mother’s domicile certificate and copy

of CNIC showing their permanent address in Karachi.

2. Students whose parents are employees of the Federal or Sindh Government, Autonomous or Semi-autonomous bodies, Government Corporations, or Armed Forces and have been posted in or transferred to Karachi during last 3 (for BS (Hons.) program) or 5 years (for BS (third year) or Masters program) will have to produce the appointment letter or transfer letter of their father/mother together with their application. Such candidates must have completed their further education after the date of transfer or posting of their father / mother from educational institutes located in Karachi.
3. 3% seats in each department will be allocated for those candidates who have passed their pre-requisite examination from a recognized educational institution located outside Karachi but they have their initial education including Matric and Intermediate from Karachi. Such candidates should have Karachi P.R.C. and their parents should have Domicile and CNIC showing their permanent address in Karachi. Candidates below the age of 18 years are required to submit photocopy of their 'B'-Form.

4. A candidate who comes under 'S' or 'P' category but she / he has got married to a permanent resident of Karachi should submit a copy of the 'Nikah-nama' along with Domicile and CNIC of her / his spouse showing his / her permanent address in Karachi.

Application for change of category

All such applicants who fulfill any of the criteria for change of category to 'K' described above, should attach with their forms an application on plain paper for change of category together with the required document mentioned above. At the time of admission they will have to produce the original and photo-copies of all the documents.

Admissions on Reserved Seats

Some seats have been reserved for dependants of Karachi University Employees, Sports, Disabled persons, Armed Forces Personnel and residents of Balochistan, FATA, Azad Jammu and Kashmir and Northern Areas. Candidates for admission to these seats should ensure that they meet the criterion of eligibility for the University as well as the concerned department. The candidates

will have to submit a separate form for reserved seats that can be obtained from the office of the Deputy Registrar (Academic).

Admissions on seats reserved for FATA, Azad Jammu & Kashmir and Northern Areas are only given after nominations through the Kashmir Affairs & Northern Areas Division, Government of Pakistan. Similarly, admissions on seats reserved for Armed Forces Personnel are given only after nominations through GHQ.

The merit list for these seats is prepared for different departments on the basis of recommendations by the Committee concerned. It may be mentioned that certain departments have limited the number of students to be admitted on reserved seats because of the unusually large number of applicants.

Conditions for Eligibility

Following are the conditions for eligibility whether applying on merit or reserved seats:

- For admission in the Faculties of Science, Arts or Islamic Studies, the candidate should have obtained a minimum of 45 per cent marks in the pre-requisite examination (Grace /

Condonation marks will not be counted).

- For admission in the Faculty of Pharmacy the candidate should have obtained a minimum of 60 per cent marks.
- **A student placed in 3rd division or obtaining less than 45 per cent marks in the pre-requisite examination is not eligible for admission in the University.**
- A candidate who has already obtained a BS or Masters degree is not eligible for readmission or fresh admission in any BS or Masters Program. If any such case comes to the notice, the student's admission will be cancelled, and legal action can be initiated against him/her. However, students who have done their masters in Urdu or English can apply for admission to M.A. Urdu (Linguistics) or M.A. English (Linguistics), respectively, through the Chairperson of the Department concerned on forms available at designated Bank branches. Similarly, students who have completed M.A Final English Linguistics can do second masters in English Literature. These candidates

will have to comply with the general rules for admission.

- Only those candidates can apply for Masters who have passed their Graduation examinations in 2003 or later. Similarly, candidates who have passed Intermediate or equivalent examination in 2004 or later can apply for admission to BS program.
- 3% seats in each department have been allocated on merit for candidates who have passed the pre-requisite examinations more than 5 years ago.
- Those students of BS (Hons.) who have successfully completed their two years of studies at the University of Karachi may apply in any other department for admission to BS or Masters Program with an application for conversion through the chairperson. 5% seats in each department will be allocated for such candidates. These students will not have to wait for one year after completion of two years BS
- Five percent of the total seats of each department have been reserved for students who already have passed their Honours in any subject and now

wish to enroll themselves for BS or Masters Program in any other subject. Such candidates shall be eligible for admissions to BS third year or previous class in the Masters Program, provided that they qualify other conditions for admission.

- Candidates desirous of taking admission on the basis of degrees/certificates awarded by public sector institutions in Pakistan should get the equivalence of their degrees/certificates determined by the University Equivalence Committee or IBCC well before the scheduled date of admissions.
- **Inadvertent admission of candidates from non-recognized institutions can be cancelled at any time**

BS (HONOURS) PROGRAM

The four years Bachelor of Studies (BS) program is equivalent to the old Masters degree. A student of BS (Hons) will have to take two subsidiary subjects besides a major subject and ten compulsory subjects in the faculties of Arts, Islamic Studies and Science, and 6 in the faculty of Administrative and Management Sciences.

Compulsory subjects for BS (Hons.) Program

Faculties of Arts / Islamic Studies:

1. Basic Mathematics
2. Communication Skills
3. Community Development
4. Computer Applications
5. English (First & Second years)
6. Environmental Sciences
7. Fundamental of Statistics
8. Islamic Studies or Ethics (for Non-Muslims only)
9. Pakistan Studies
10. Urdu (Mother Tongue) / Urdu (Non-Mother Tongue) Sindhi / Bengali / Natural Science (for Arts students) / Humanities (For Science students)

Faculty of Science:

1. Communication Skills
2. Community Development
3. Computer Applications
4. English (First & Second years)
5. Functional Mathematics (2 Courses) (for the students of Biological Sciences) or Functional Biology (2 Courses) (for students of Physical Sciences)

6. Introduction to Social Sciences
7. Islamic Studies or Ethics (for Non-Muslims only)
8. Pakistan Studies
9. Statistics / Economics / Management
10. Urdu (Mother Tongue) / Urdu (Non-Mother Tongue) / Sindhi / Bengali / Natural Science / Humanities

Faculty of Administrative & Management Sciences:

1. English
2. Environmental Sciences
3. Islamic Studies or Ethics (for Non-Muslims only)
4. Orientation of Computers
5. Pakistan Studies
6. Urdu (Mother Tongue) / Urdu (Non-Mother Tongue) / Sindhi / Bengali / Natural Science

Major Subjects

The list of Major Subjects for BS (Hons) students is given in **Appendices A & B**. Information about individual departments are available on Karachi University website www.uok.edu.pk

Subsidiary Subjects

The subsidiary subjects can be selected as per details given in **Appendices C & D**. This is given for the guidance of the students only. **The final selection of**

subsidiary subjects shall be made in consultation and with permission of the Chairperson of the concerned department. As the number of seats in various departments is limited, it is possible that a student may not be able to take the subject of choice. The allocation of seats for subsidiary subjects is made by the Dean of the Faculty and the Chairperson of the concerned Department on the basis of merit. Subsidiary subjects must be selected from combinations listed in **Appendix C & D**.

Eligibility for Admission to BS (Hons.) 1st year course of studies

The number of merit seats in different departments and conditions of eligibility are mentioned in **Appendices A & B**. The subjects whose study is a pre-requisite for admission to different departments have also been identified. Preference will be given to those candidates who had offered same subject in Intermediate / H.S.C. for which they have applied for admission, except for those departments where clarification in this regard has been indicated in column of eligibility. However, in case of subjects such as International Relations, Social Work, Philosophy, Genetics, Mass Communication, Biotechnology, Physiology, Public Administration which

are not taught at intermediate or graduate level, other alternative subjects have been mentioned in the relevant column.

BS (THIRD YEAR) / MASTERS PROGRAM

Masters (M.A. / M.Sc.) programs have been abolished in departments where the BS (Hons.) program was initiated in 2007. These departments now offer admission to BS third year instead of masters program. On successful completion of two year of study, BS degree will be awarded to candidates admitted to BS third year. This BS degree will be equal to the old masters degree. Admissions to M.A. or M.Sc. will be offered only in departments that have no BS program or the BS program will be initiated in 2009.

Eligibility for Admission to BS (Third year) and Masters (Previous)

The number of merit seats in different departments and conditions of eligibility are mentioned in **Appendix E & F**. The subjects whose study is a pre-requisite for admission to different departments have also been identified. For admission in BS (Third Year) and Master classes, preference will be given to those

candidates who had offered the same subject in B.A., B.Sc., B.Com. However, in case of subjects which are not taught at graduate level (such as International Relations, Social Work, Philosophy, Mass Communication, Genetics, Physiology, Biotechnology, Public Administration) other alternative subjects have been mentioned in the relevant column.

PROCEDURE OF ADMISSION

1. The date of opening of admissions, availability of forms, submission of forms and other details are announced on Karachi University website www.uok.edu.pk and through advertisement in the newspapers.
2. An application form for admission on either open merit basis or aptitude test basis is available within this booklet and on the Karachi University website www.uok.edu.pk
3. **Applicants** are directed to read carefully the directions in this booklet before filling in the form. They should attach a powder photocopy of the filled-in form together with the original. They are also directed to attach two powder

photocopies of the mark sheet of the pre-requisite examination. They should attach 1st year and 2nd year mark sheets of HSC (for BS Hons.) or B.A./B.Sc./B.Com. or equivalent examination (for BS Third Year or Masters). **It should be noted that mark sheets which do not give details of the marks awarded in both the years, but only give a consolidated total will not be accepted.**

4. Applicants are instructed to select departments strictly in accordance with eligibility criteria listed in **Appendices A & B** for BS (Hons.) and **Appendix E & F** for BS (third year) or Masters. A maximum of 05 choices of departments can be given in order of preference. **The names of the departments should be mentioned very carefully since it is not possible to make any changes in the form once it is submitted.**
5. **Closing percentages for BS (Hons.) and BS (Third Year)/ Masters Admissions 2009 are given in Appendices I & J, respectively. These percentages are only for guidance and not applicable to admissions for this year.**

6. **A candidate can apply for admission on open merit and test bases on separate forms but he/she is not allowed to submit more than one admission forms for the same type of admission. If any candidate is found submitting more than one forms for admission either on open merit or aptitude test basis, all of his/her forms will be cancelled.**
7. A merit list will be prepared for every department after verification of the eligibility and mark sheets of the applicants, on the basis of criteria set down for that department.
8. The provisional list of successful candidates for Pharm-D or BS (Hons.) First Year in Applied Chemistry, Food Science & Technology, English, International relations and Mass Communication, will be displayed **at 04:00 p.m. on December 06, 2009 at the camp office, University Silver Jubilee Gate (main University Road) and the Karachi University website** along with necessary instructions. **Provisional admission list for the remaining departments will be issued on December 12, 2009.** Similarly, the provisional list of

successful candidates for BS (Third year) / Masters programs both in open merit and aptitude test departments will be displayed **at 04:00 p.m. on December 09, 2009.**

9. If any candidate feels that his / her name has not been included in the merit list even though he/she has secured merit marks and satisfies the other conditions of eligibility for admission to any department he/she has applied for, such candidates should obtain a Claim Form from the Camp office on payment of Rs.500/- (Rupees Five Hundred only) and submit it within the stipulated period. If the claim is found to be valid due to error in processing by the admission committee, the cost of claim form will be refunded and admission will be granted to the candidate according to rules and regulations.
10. Candidates submitting forms for reserved seats should submit a separate form for this purpose which is available from the office of the Deputy Registrar (Academic). These candidates can also submit the forms for Open Merit and Aptitude test Departments. However, the order of preference

should be the same in both the forms.

11. **University employees** who wish to get admission on the seats reserved for them will have to submit an affidavit on a form which is available in the office of the Deputy Registrar (Academic).
12. **Disabled persons** who wish to apply for seats reserved for them are required to submit a medical certificate giving details of their disability.
13. Students applying on **sports seats** should attach sport certificates and other supporting documents with their application. Candidates are advised to read the **eligibility conditions for admissions on sports quota** that are available from the office of the Deputy Registrar (Academic).
14. The lists of admission for reserved seats will be prepared separately by the concerned committees.
15. *Instructions for candidates whose names appear in the Admission Merit List*
Candidates whose names appear in the admission list will have to complete all formalities for

admission within the stipulated time, otherwise their admission will lapse and no claim will be entertained.

The following documents are to be submitted for completion of admission:

1. The original Marks sheet of the last examination i.e. H.S.C. or equivalent for BS and Graduation for BS (ThirdYear) / Masters (non returnable)
2. Character Certificate from the head of the institution last attended. For external candidates a character certificate from any gazetted officer (non returnable).
3. Original and photocopy of the CNIC of the candidate, or in case candidate is below 18 years original & photocopy of father's/ mother's CNIC. (the original will be returned after verification)
4. The original certificate of S.S.C./H.S.C./ A/O Level, and an attested copy of the same. (The original documents will be returned)
5. 10 recent photographs (2x1¹/₂ inch).
6. Affidavit by Oath Commissioner on Judicial paper (Sample is

given in this booklet – Appendix- G).

7. Payment of prescribed fee.

16. **After completion of the above formalities, the candidate will have to fill in an enrolment form that will be issued only on the production of original receipt of the Admission Form.** Under the University rules his/her admission will not be deemed complete until he/she receives his/her enrolment card.
17. Students who have passed their last examination from Board, College or University out side Karachi have to submit a migration certificate from the respective institute in order to complete the enrolment formalities.
18. It is to be pointed out that **all admissions are provisional subject to verification of documents. If any candidate secures admission on the basis of misinformation and/or fake documents, his/her admission can be cancelled at any time and the deposited fee shall not be returned. Suitable punitive action will also be taken** which can extend up to debar from any

educational institution for three years.

19. The candidate will have to fulfill the rules and criteria set down by the departments, which have been mentioned in **Appendices A-F** of this booklet.
20. The admission Policy for Evening classes will be announced separately. Details are available in **Appendix - H.**
21. All candidates for admission will have to, besides the directions given in this booklet, abide by the rules set down in the University Code. Likewise semester rules are applicable on all the students. Important semester rules are given in **Appendix-K.**

TEACHING & RESEARCH

The University offers Academic Programs in BS, Pharm-D (Pharmacy), BBA, BPA, B.E., B.L.I.S., MS, M.A., M.Sc., M.L.I.S., MPA, M.Com., MBA, MPA, M.Pharm., Ph.D., D.Sc. and D.Litt. Besides, Certificate and Diploma Courses are also offered in certain departments.

Department of ARABIC

Introduction

The Department of Arabic was established in 1955. Since its very beginning it has enjoyed the patronage of prominent intellectuals. The renowned scholar professor Allama Abdul Aziz Al-Memoni was designed the first Head of Department.

At present, the department has highly qualified teaching faculty. After taking charge as chairman Dr. Muhammad Ishaq Mansoori introduced new syllabi for graduate and masters levels, which meet present day requirements. Curricular and co-curricular activities take place along with extension lectures, debates, study tours, picnic and other functions. 42 courses of Arabic language and literature are taught, including computer and research methods. Classical and functional Arabic is taught so that students may efficiently play their role on entering various field of life. The department is a confluence of ancient and modern Arabic.

Degree Available

- BS (Hons.)
- BS

- Certificate Courses
- MS
- Ph.D.

Admissions Requirement

BS (Hons.): Intermediate or
Ash-Shahadatul Alia
BS (3rd Year): Graduation or Equivalent

Estimated Seats

BS (Hons.): 50
BS (Third Year): 50

Facilities

The department of Arabic has a well-stocked Seminar library, which has a large number of books suited to the student's need. There is also a computer lab, which students are encouraged to use. Among other facilities at Arabic department are an overhead projector and a television set, which are used for academic purpose.

Teaching & Assessment

Teaching combines lectures, extensive lectures and group discussions in the classroom. Student's performance is assessed by end-of-semester examination.

Career opportunities

After obtaining their degree in Arabic, students enter a variety of fields, such as

teaching, translation, (academic, diplomatic and commercial) and broadcasting (T.V. & Radio).

Faculty Member

Prof. Dr. Muhammad Abdush Shaheed
Nomani
Dr. Ehsan-ul-Haq
Dr. Muhammad Ishaq
Ms. Fatema Zainab
Mr. Asif Saleem
Mr. Muhammad Imran Latif

Further Enquiries

Telephone# 92-021-99261300-06
Ext- 2273
Website: www.arabic.ku.edu.pk
Email: arabic@ku.edu.pk

Department of **BENGALI**

Introduction

Established in 1953, the department of Bengali at the University of Karachi offers a regular program of studies at the Bachelors and at the Maters levels. The program enables students to develop a meaningful understanding and appreciation of Bengali Literature. Moreover, it gives an insight into the history of Bengali Literature starting from the medieval age right up toll the modern age. In addition to this,, it acquaints students with the different genres of literature namely poetry, drama and fiction/prose. A pool of highly competent faculty members has been associated with the Bengali department. Professor Syed Ali Ahsan, Professor Muhammad Farooq, Professor Syed Ali Ashraf and Mr. A.B.M. Mohiuddin Chaudhry have all contributed immensely to the development of the department.

Degree Available

- BS (Hons.)
- BS (Third Year)
- Bengali Certificate Course: Non-native students interested in learning how to read, write and speak Bengali at a basic level may opt for the one

year certificate course that is offered during the afternoon hours.

Admission Requirements

BS (Hons.): A Level / Intermediate/ DAE or equivalent

BS (Third year): Graduation degree in B.A. /B.Sc./ B.Com./ B.Sc. (Home Economics) /with Bengali

Certificate Course: At least Intermediate

Estimated Seats

BS (Hons.): 20 seats

BS (Third Year): 20 seats

Facilities

There are about 2000 books on literature in the Seminar Library. Furthermore, some important publications are housed in it which are as follows:

1. Bengali Literary Review
2. Chahar Darvesh, Kavi Modhushuddan
3. Kavvy Parichay, selecgted poems of Ghulam Mustafa

Teaching and Assessment

Teaching at the Bengali department is carried out mainly through lecture. Visiting speakers from other institutes are also invited from time to time. Students are required to give presentations on various topics as well as to submit

assignments. The department hosts seminars at national and international levels from time to time, in which distinguished speakers from Bangladesh read out their papers and speak on different aspects of their fields of interest in Bengali literature The last seminar organized by the department was on the prominent Bengali scholar Qazi Nazrul Islam who contributed immensely to the Pakistan Movement.

Career Opportunities

Students who graduate form this department are competent enough to enter the teaching progression for the subject of Bengali at primary as well as at a higher level. Furthermore, opportunities of working in Bangladeshi banks such as the Rupali Bank and in various government departments are available to them. They may also opt for research or work as translators and interpreters.

Faculty Members

Assistant Professor

Dr. Muhammad Abu Tayyab Khan

Further Enquiries

Telephone: 92-21-9243131-7, Ext:2319

Website: www.ku.edu.pk

Department of ECONOMICS

Introduction

The department of Economics is one of the largest departments in the Faculty of Arts. It was established in 1950-51 with the enactment of the University of Karachi Act, at the old campus in the city, and was later shifted to its present location in 1960.

Professor Newman Joseph Adams, an American national, was appointed the first Chairman, and served the department for a short period. Professor Qazi Fareed took over the responsibility after Newman left for home. It was this pioneering personality, who developed the department further. After his death during service in 1966, Professor Ehsan Rashid, who later served as the Vice Chancellor of the University of Karachi, became the Chairman of the department. Subsequently, Prof. Qamarul Hasan Siddiqui, Prof. Dr. Ashfaq H. Kadri, Prof. Dr. Syed Ali Sarwar Rizvi, Mr. Fakhruddin Ahmed, Prof. S.M. Jaffar, Prof. Muhammad Sajidin and Prof. S.M. Ahsan Hussain have served the department as Chairmen. Presently Prof. Dr. Shafiq-ur-Rehman is the Chairman of the Department.

The department of Economics has the distinction of being recognized as a premier department in the country because of its academic standards. It is because of these standards that the department was accorded the honour of establishing a center of national capability in Economics by the name of "Applied Economics Research Center" through a grant by the Sindh Government. Later on, the Ford Foundation extended financial support enabling the Applied Economics Research Center to become a leading institute in the field of Social and economic research.

Facilities

The department of Economics currently has four big sized lecture halls and two normal sized classrooms. The seminar library has a good collection of books and periodicals related to Economics and Transport. For material not found in the library full use is made of inter library loan facilities and links are established with other major libraries in the city, including the main library and the research library of the AERC of the University of Karachi. The department has a computer lab with thirteen PCs. We believe that extensive training in computer applications would enhance analytical and applied skills of the students.

Teaching and Assessment

The teaching method at the department is a blend of theory and practice, as lectures, case studies, oral presentations, written reports and field visits are all given due importance. The concepts taught by faculty members are supplemented with their practical applications through eminent guest speakers from financial institutions.

To ensure that the students are assimilating the knowledge being imparted to them, frequent tests ranging from 10 minutes, unannounced quizzes to three hours examinations and from oral presentations and written reports, assignments are given, throughout the semester.

Courses Offered

Micro Economics, Macro Economics, International Trade & Finance, Money and Banking, Public Finance, Economic Planning and Development, Monetary Economics, International Economics, Econometrics, Mathematical Economics.

Career Opportunities

Students of the department enter a variety of fields, such as banking, C.S.S., research, teaching, business etc.

Faculty Members

Professor

Dr. Shafiq-ur-Rehman, Chairman

Assistant Professors

Ms. Rabia Arshad,
Ms. Rubina Hassan, Assistant Professor
Dr. Wiqar Hussain, Assistant Professor
Mr. Khalid Mustafa, Assistant Professor
Mr. Muhammad Ali, Assistant Professor

Lecturers

Mr. M.Ahsan Uddin,
Ms. Roohi Ahmed
Ms. Safia Minhaj
Dr. Abdul Waheed
Mr. Muhammad Shehzad
Ms. Saba Masood
Ms. Lubna Naz
Mr. Zeeshan Ateeq
Ms. Rummana Zaheer

Further Enquiries

Telephone: 92-21-99261300-6 Ext:2270
Website: www.ku.edu.pk

Department of **EDUCATION**

Introduction

The department of Education is among the largest departments of University of Karachi and also the main discipline in the field of social sciences under the umbrella of Faculty of Arts, University of Karachi. The Department was established in 1984. The main goal of the department is to prepare and equip the new generation to meet the current needs of the job market and to update their knowledge in the field of Education. The department considers also facilitating its students to meet the challenges of Science and Technology in the subject of Education for national development and translate it in terms of basic ideology of Pakistan. This department further supports its students in adjusting themselves to the global society with the changing role in Education. The department expects from its students a productive role in educational leadership & administration, creative thoughts as educator and innovative approaches with techniques and materials in Education.

Degree Programs Available

- BS (Hons.)
- BS

- MS: M.A
- Ph.D: M.Phil/MS

Admission Requirements / Estimated Seats

BS (Hons.):

- Intermediate Arts, Science, Commerce & Home Economics (Preference to be given with Education) 50 Seats
- DAE 02 Seats

BS (Third Year):

- B.A. with Education 45 Seats
B.A./ B.Sc./ B.Com./
- B.Sc. (Home Economics) 15 Seats
(Preference to be given with Education)
- B.Ed. 04 Seats

Teaching & Assessment

Teaching and assessment is carried out on semester basis as per university schedule.

Research Activities

Student of the degree program are intensively involved in thesis writing in Education. For this purpose, department also manages the range of various training opportunities in terms of seminars, workshops and symposia for catering to the needs of growing research activities across the globe.

Facilities

- Seminar Library

Co-Curricular Activities

The students of this department are also involved in co-curricular activities such as: Eid-Milad-un-Nabi, National Days celebration, Students Week, and different sport events according to the prescribed university schedule.

Career Opportunities

Students of the department of Education have been serving in colleges, market research, media, educational NGOs guidance and counseling, bureaus in Universities, curriculum development, strategic planning and policymaking.

Faculty Members

Associate Professor

Dr. Ghulam Rasool Memon (Chairman)

Assistant Professors

Ms. Rizwana Muneer

Mrs. Safia Urooj

Lecturers

Mrs. Azizunisa

Mr. Imtiaz Ahmad

Mr. Muhammad Asim

Further Enquiries

Telephone No. 99261300-6 Ext 2267

Department of ENGLISH

History of the Department

Professor Dr. Ahsan Farooqui was the first head of the department of English. Professor Maya Jamil, Professor Dr. Ali Ashraf, Dr. Muzaffar Hussain and professor Dr. Kalim-ur-Rehman were among the most famous heads.

Courses offered

Morning Program

- BS (Hons.) 50 Seats
- BS 40 Seats
- M.A.(Final) English Literature
- M.A.(Final) English Linguistics
- MS in English Literature
- MS in English Linguistics

Evening Program

- BS (Hons.)
- BS
- M.A.(Final) English Literature
- M.A. (Final) English Linguistics

Admission requirements

BS (Hons.)*

- i. 'A' Level (with English Literature)
- ii. 'A' Level (with English General [A,B or C grade])
- iii. Intermediate (after 'O' Level)
- iv. Intermediate (with at least 50% marks in Elective English)

- v. Intermediate (with at least 50% marks in Advance English)
- vi. Intermediate (with at least 60% marks in English Compulsory)

BS (Third Year)*

- i) Graduation (with at least 45% marks in Elective English)
- ii) Graduation (with at least 55% marks in Compulsory English)

* Admissions will be given according to the above order of priority.

M.A.(Final) English Literature: M.A. (2nd Div.) in English Linguistics.

M.A. (Final) English Linguistics: M.A. (2nd division) in English Literature

Facilities

[a] The English Seminar Library: This is situated in the department and houses a large variety of books on English and American fiction, poetry, drama, essays, and history etc. Books on linguistics, English language teaching and applied linguistics are also available. There are two cupboards of books on long loan from the Dr. Mahmood Hussain Library, which have been specially selected with the prescribed courses in mind.

Only students of English Department can apply for the membership of this seminar library.

The Dr. Kalim-ur-Rehman Reference Library is situated within the seminar library. It contains over two thousand books, and is a very rich resource for research.

[b] Dr. Kalim-ur-Rehman Audio-Visual Room: Research students can use computers and internet provided here. Relevant literary films and televised English plays are also shown. We hope to develop a multimedia self resource centre here in near future.

Career Opportunities

Students of the department of English have entered a variety of vocational fields. Some of these fields are: CSS, Advertising, Media (T.V., Radio, Newspapers, Magazines, etc.) Baking, Business, Teaching Educational Administration, Research etc. Excellent job opportunities are available for the students of English department.

Publication

All the faculty members have published many research papers individually. However, the department intends to publish an annual research journal.

Research and Social Activities at the department

The department holds regular research seminars and teacher development

programs. A number of people are conducting research for their M.Phil and Ph.D. degrees in the department. Moreover, several social and co-curricular activities are organized under the supervision of students Advisor and the Chairman.

Special Interest Groups

[a] The Sharafat Ali Cassette Library for Blind University Students:

This is a library for blind students of the university which is housed in the English Department. Volunteers are always needed to record course material for blind students on cassettes. The aim is to encourage the spirit of helping other.

[b] Shakespeare Association of Pakistan.

An academic society, the Shakespeare Association of Pakistan is run by various members of staff.

[c] Creative Writing Group.

The members meet fortnightly and read out and discuss self composed poetry or prose.

[d] The Book Club.

The main aim is to share and thus encourage out of course reading. Students share one book in a meeting.

[e] The Dramatics Club.

Students with dramatic talent are encouraged to demonstrate their skills on occasions such as Welcome & Farewell parties and Shakespeare's birthday.

[f] The Public Speaking Group.

The members of this group are encouraged to participate in debates and other public speaking contests.

All the students who are interested in these activities or wish to start a new group should contact the department student advisor. It should be remembered that these co-curricular activities are in addition to curricular activities and are not in place of them.

Faculty

Professors

Mr. Kaleem Raza Khan
Dr. Syed Munir Wasti (Chairman)
Ms. Amberina M.Kazi
Dr. Fauzia Shamim

Assistant Professors

Ms. Dilshat Bano
Ms. Nishat Wasim
Ms Huma Shakir
Ms. Lubna Shaheen
Dr. Farhana Wazir Khan
Dr. Iftikhar Shaft
Mr. Tayyab Zaidi

Lecturers

Ms. Shumaila Shafket
Ms. Ibtesam Afreen
Ms. Bushra Khurram
Mr. Faisla Nazir

Further Enquiries

Telephone: 99261300-6 ext. 2249

Department of **GENERAL HISTORY**

Introduction

Department of History established in 1953 is the oldest department of the Karachi University which is proud of having world renowned scholars such as Dr. Mahmood Hussain, Dr. Riaz ul Islam, Dr. M.H. Siddiqui and many more as its faculty members.

Programs Available

- BS (Hons.)
- BS
- MS/Ph.D.

Certificate Courses (1 Year)

- Hindi Language
- Diploma Course
- Indian Studies

Admission Requirement

BS: Intermediate
M.A.: Graduation
MS: BS/M.A.

Estimated Seats

BS: 25 seats with General History,
65 on open merit
10 Seats for DAE
BS (Third Year): 100 BA/B.Sc./B.Com.
30 seats with General History
70 on open merit

Facilities

- Dr. I.H. Qureshi Memorial Library
- Audio Visual Room
- Teaching Museum
- Internet facility for research students

Teaching and Assessment

Every course is a 3 credit hour course. Teaching methodology is based on historical accounts, primary and secondary sources and visits to historical sites and Archives of various institutions. Classroom teaching is interactive and supported by seminar discussions, extension lectures by esteemed scholars. Our teaching approach is analytical unbiased and we encourage students to examine the historical events in global perspective. Our main emphasis is on developing historical research writing. We also offer non credit courses in various languages as per requirement.

Assessment Scheme: Mid-term, assignments research projects and terminal test.

Career opportunities

National: Department of Archaeology, Historical research centers, Museums, Teaching and Civil Services, Media (electronic and print), back office researcher & NGOs.

International: International organization like UNO, World Bank, Asian

Development Bank, SAARC, ECO etc. Teaching and research assignments in national and international universities.

Research Activities

Workshops, Seminars, Conferences, Extension lectures, Students' discussions & debates, field trips and study tours

Faculty Members

Professor

Dr. Javed Husain

Associate Professor

Ms. Nargis Rashid,
Ms. Shama Habeeb

Assistant Professors

Mr. Asrar Ahmed Siddiqui
Dr. Nasreen Afzal
Dr. S.M.Taha
Ms. Hina Khan
Dr. Tania Beg

Lecturers

Ms. Hajra Jaleel
Ms. Kiran Siddiqui
Ms. Kishwar Khan
Ms. Humaira Naz
Mr. Moiz Khan

Further Enquiries

Telephone: 99261300-6 Ext.2272
Website: www.genhist.ku.edu.pk
Email: genhist@ku.edu.pk

Department of **INTERNATIONAL RELATIONS**

Introduction

The Department of International Relations is the oldest Department in the field of International Relations in Pakistan. It was established in 1958 and has the honor of offering Bachelor of Studies (BS), Master of Studies (MS), M.Phil and Ph.D. programs. Prior to its formation, the Department was under General History Department and Professor Dr. Mahmud Hussain was its founding Chairman. Dr. Muhammed Ahsen Chaudhry succeeded Dr. Mahmud Hussain as the Chairman of the Department. He was followed by Dr. Ahmed Abdul Kadeer, Dr. Mujtaba Razvi, Professor Shameem Akhtar, Professor Talat A. Wizarat, Professor Syed Sikander Mehdi and Dr. Khalida Ghous, Prof. Dr. Talat A. Wizarat. Currently, Professor Dr. Moonis Ahmar is the Chairperson of the Department. The Department has a faculty of 11 full time and four part-time teachers and 500 students are studying at the undergraduate and graduate level both in the morning and evening sections.

Since its inception, the Department of International Relations has been active in organizing seminars, conferences and workshops. A number of books have also been published under the Department and several Research Projects funded by foreign foundations are presently being run by its faculty members. The syllabus of the

Department was revised in 1998 and new courses focusing on the conceptual and regional studies have been offered.

Degree Programs Available

- BS (Hons.)
- BS
- MS/Ph.D.

Admission Requirement/ Estimated Seats*

BS (Hons.):

- Intermediate Arts with Civics, General History, Economics, Sociology, Logic **50 Seats**
- Intermediate Science with First division **15 Seats**
- Intermediate Commerce with First division **05 Seats**

BS (Third Year):

- B.A. 1st division with (International Relations, Political Science, Economics, General History, Philosophy, Sociology, Mass Communication) **70 Seats**
- B.Sc. with 1st division **15 Seats**
- B.Com. with 1st division **05 Seats**

* In case of vacant seats, allocation can be interchanged

MS: BS/M.A. **15 Seats**

Facilities

The Department of International Relations boasts of a vibrant academic and research culture. There is a seminar library for both undergraduate and graduate students which consist of relevant books, magazines, research journals and newspapers. In addition, graduate students can access the departmental computer lab with internet and printing facilities for writing research reports and assignments. The Department has a separate conference room where conferences and seminars are organized.

Teaching and Assessment

Teaching for both the BS and MS degree programs is offered on a semester basis. Student assessment during the semester consists of mid-term tests, assignments and a terminal exam at the end of every semester. Two mid-term tests and an assignment account for 50 marks while the terminal exam makes up for the remaining 50 marks.

Career Opportunities

Students graduating from the Department can be found in various sectors. Traditionally, students of the Department have been recruited to the bureaucracy, both provincial and federal. A popular option these days is recruitment in the electronic media where there is a huge demand for IR graduates focusing on current events.

Research Activities

The process of organizing programs, collaborative research and publications in the

Department got an impetus in the decade of 1990s. More than 22 international conferences and workshops have been organized by the Department since 1994. Please visit www.kuird.org

Publications of the Department

The department has published several books. Please visit www.kuird.org

Faculty Members

Professors

Dr. Khalida Ghous (on Ex-Pakistan Leave)
Dr. Moonis Ahmar (Chairman)
Dr. Shaista Tabassum
Dr. Sheikh Mutahir Ahmed

Assistant Professors

Dr. Huma Baqai (on Ex-Pakistan Leave)
Mr. Aamir Hameed (on Study Leave)
Dr. Naeem Ahmed

Lecturers

Ms. Sheila Zulfiqar Ahmed (physically posted at the Area Study Centre for Europe)
Mr. Farhan H. Siddiqi
Ms. Nausheen Wasi
Mr. Fahimuddin

Cooperative Teachers

Mr. Owais Ahmed
Ms. Nabiha Gul
Mr. M. Faisal Awan

Visiting Professors

Prof. Dr. Arif Kamal
Prof. Dr. Khalida Mahmood
Prof. Dr. Altaf Khan

Further Enquiries

Telephone: 99261300-6 Ext. 2274
99261394 (Direct)

Website: www.kuird.org, www.ppscr.org

Department of **ISLAMIC HISTORY**

Introduction

The Department of Islamic History may be regarded as one of the oldest departments of Karachi University. It was established in 1953 with a view to provide facilities for advanced studies and original research in the field of Islamic History and culture. Although in the opening phase it had a very limited number of students and very few teachers, yet it attracted the intelligentsia and subject lovers soon. So much so that it became the 2nd/3rd largest department of the Faculty of Arts in the following years. It still ranks the same. At present there are more than four hundred students on roll in this department.

Degree programs Available

- BS (Hons.)
- BS
- MS/ Ph.D.

Estimated Seats

BS (Hons.): 100
BS (Third Year): 70

Admission Requirements

BS (Hons.):
i) Intermediate Arts with Islamic History

- ii) Intermediate Arts with Islamic Learning, General History or Arabic
iii) Intermediate Arts, Science and Commerce

BS (Third Year):

- i) B.A. with Islamic History
ii) B.A. with Islamic Learning, Islamic Culture, General History or Arabic
iii) B.A., B.Sc., B.Com.

MS: BS/M.A. Islamic History
Ph.D.: MS/M.Phil Islamic History

Carrier Opportunities

Islamic History has possess a very strong bond with the social sciences, political sciences, international relations and sociology, not only the describe above, but in professional field that include teaching and media, it also posses a very bright future, especially, right now as the World's geo-political, social and cultural scenario are changing, Islamic History attains a vital and leadership importance.

Research Activities

Along with teaching and studies, original research work was also carried out during last three decades. Research activities at M.Phil. and Ph.D. level are still in progress.

Facilities

- A departmental library is housed in the seminar reading room that has more than 2000 books.

- A small computer lab

Faculty Members **Associate Professor**

Dr. Nigar Sajjad Zaheer

Assistant Professors

Mr. M. Shakeel Siddiqui
Ms. Farzana Jabeen
Mr. Muhammad Zubair
Ms. Soofia Farnaz
Ms. Farah Naz Sohail

Lecturers

Ms. Suraiya Tariq
Ms. Samina Hasnain

Further Enquiries

99261399-6 ext. 2276

Department of **LIBRARY & INFORMATION** **SCIENCE**

Introduction

The Department of Library Science, established in 1956, was the first ever to offer professional degree in Pakistan. Masters in Library Science (M.L.S.) was offered from 1962. Since 1982 the department is known as Department of Library and Information Science, and information control / management became an integral part of the studies. Computer lab for cataloguing was established in 1984. This was the first computer laboratory in all Library and Information Science Schools across Pakistan as well as the Faculty of Arts, University of Karachi. Ph. D. program of the department was started in 1967.

The founder chairman, Dr. Abdul Moid was the first Ph. D. holder in Library Science from the USA (1964). He was also the Chief Librarian of Karachi University Library (presently Dr. Mahmood Hussain Library). The seminar library of the department, inaugurated in 1985, is named after him. The Presidents' Award for the Pride of Performance has been awarded to Professor Dr. Anis Khurshid, a renowned teacher of the

department, known as the father of modern librarianship in Pakistan.

The alumni of the department extend their services as professionals and as librarians in all type of public and private institutions in Pakistan and abroad.

Degrees Available

1. BS: Bachelor in Science
2. BLIS: Bachelor of Library and Information Science
3. MLIS: Masters of Library and Information Science
(Students who have completed their BLIS and MLIS are awarded separate degrees for each program)
4. MS/ Ph. D.

Admission Requirements / Seats

BS: Intermediate (50 seats)

BLIS

- B.A., B.Sc., B.Com, B.Sc. (Home Economics) 50 seats
- B. A. with Library Science (Minimum 55% marks) 08 seats
- 02 seats reserved for candidates who have worked on a professional capacity in a library of a recognized institution for at least 3 years and who fulfill the following conditions:
 1. Must be a second class graduate

2. Certificate from the Head of the Institution giving justification and recommendations for the degree.

(The condition of having graduated within five years will not apply to applicants for these seats) if these seats remain vacant, they can be filled with applicants who have done B.A., BLIS

Admission to MLIS is granted at departmental level

Facilities

The Department of Library and Information Science has a well-stocked seminar library, a practical lab for cataloguing and classification and a large computer lab with 24 Pentium-IV PCs. Multimedia, slide projectors, sound system and other equipments is available for academic and co-academic activities.

Teaching and Assessment

Teaching at the department includes lectures, practical, presentations and group discussions.

Assessment is based on evaluation of performance in the semester examinations along with various projects, assignments, reports and oral presentations.

SPIL Gold Medal

A Gold Medal is offered to students who obtain first-class-first position in MLIS.

Career Opportunities

As knowledge and information is needed by everyone and everywhere, all types of academic / research / professional institutions need librarians. The need of a trained person to control and to search relevant information in the modern time has become a necessity. Opportunities for outgoing students are open in public and private sector and packages offered are better in comparison to other professions. In government offices, BLIS / BS degree holders are offered 16 – 17 (BPS) and MLIS 17 (BPS) and above.

Research Activities

Research is actively pursued by the Faculty in their respective fields of interest. The students are required to produce research at various levels, ranging from short assignments to the optional Final year thesis.

Publications

Books are published from time to time on the various topics related to LIS whenever a gap is felt in the available information. Research papers of Faculty members and students are periodically published in leading research journals of the field.

Faculty Members**Professor**

Ms. Malahat Kaleem Sherwani, Chairperson

Assistant Professors

Mr. Muhammad Siddique
Mr. Anwer Shoaib Khan
Ms. Munira Nasreen Ansari
Mr. Farhat Hussain
Ms. Rafat Parveen Siddiqui
Ms. Naveed-e-Sehar

Lecturers

Mr. Muhammad Wasim Zia
Ms. Naiyar Huda

Further Enquiries

Telephone: 92-21-99261300-7, Ext. 2249
Website: www.dlisuok.edu.pk
Email: dliis.uok@gmail.com

Department of **MASS COMMUNICATION**

Introduction

The Department of Mass communication, previously known as the Department of Journalism, was established in 1955 with a diploma course for working journalists. The objective was to produce qualified journalists and media professionals and to cater to the growing needs of the national press and the mass communication industry. In 1962, the diploma program was replaced by a regular two year M.A. Program. This was done in the light of recommendations of the Pakistan Press Communication with the aim to expand and modernize media education in the country.

The department is younger than many other mass communication departments at universities in other South Asian countries. Having begun with six students, the department has progressed fast. It is now among the first priorities of admission seekers to the arts Faculty. On an average, for 70 seats in BS Honours (1st year) and BS (Third Year), the department receives over 2000 applications. The intending admission seekers are supposed to have a natural aptitude for media related professions and

must be fluent in spoken and written languages (both English and Urdu). The students have to opt for a medium in which they can express themselves conveniently. The teachers of the department have a professional background with experience in every sector of the media, namely, print, radio, television, advertising and public relations. Renowned journalists and leading editorial executives are regularly invited to visit the department and deliver lectures on subjects of their specialized fields.

The department is in the process of up-gradation to the level of a full fledged institute, to be known as Dr. Feroze Ahmed Institute of Mass Communication. Since the system in the country is multi lingual, separate classes are held in English and Urdu languages as mediums of instruction.

Degree programs Available

- BS (Hons.)
- BS
- MS/Ph.D.

Estimated Seats

BS (Hons.):	Intermediate	35
	DAE	02
B..S (Third Year):		35

Admission Requirements

BS (Hons.): Intermediate Arts, Science, Commerce, Home Economics or equivalent

BS (Third Year): B.A., B.Sc., B.Com., B.Sc. (Home Economics) or equivalent

Calculation of Merit for BS (Hons.) & BS (3rd Year)=

(Total % + % marks in English + % marks in Urdu) / 3

** For those who do not have Urdu (Compulsory) as a subject in the pre-requisite Exam, the merit formula will be = (Total % marks + % marks in English) / 2*

MS: BS/M.A. Mass Communication

Ph.D.: MS/M.Phil Mass Communication

Facilities

- Four teaching & training labs namely the news lab, Electronics Media Lab, two Computer Labs (one each for Urdu and English) and an Advertising Lab.
- A complete radio broadcasting station for with the FM radio license

Research Activities

The department is gradually expanding its research activities to a higher level. Final year students are required to undertake a research project and submit their report in the final semester. The department has a large collection of such reports focusing on almost every aspect of the media, which are also published from time to time.

Publications

The department is keen to publish academic and informational material. An annual journal, known as the 'Journalist' was started in 1966. Some research and a number of general articles were published in it. Since 1997 however, its title has been changed to 'Journal of Mass Communication' and it has been reserved for research articles only. The journal is bilingual.

In 1989 the department began a unique experiment in order to provide much needed text material for its classes. Two to four books are published every year. These valuable publications are the latest and relevant material available to Urdu medium students. A similar approach has been adopted to bring out issues in English. The department also published the University Gazette and Al-Jamia every month in Urdu and in English. These bulletins contain important information for academics. A newspaper entitled "Inkeshaf" is published each semester to provide a training base to students. Students produce the entire content of this newspaper. The newspaper is published under the direct supervision of senior faculty members. In 2003, the department launched a monthly newsletter, "The Media Mirror", which

publishes news stories and comments on media related events and issues.

Teaching and Assessment

Mass communication courses are of two categories theoretical and practical. Apart from class lectures, students are required to do tutorials and assignments with appropriate weightage in work. Practical courses include regular lab work and students are taught different media skills, and are required to produce various media content as assignments. It is also mandatory for each student to complete 180 hours of internships at media institutes. A certificate on satisfactory completion of internship enables students to apply for a marks sheet and a degree.

Career Opportunities

Mass Communication is a professional discipline and there are vast opportunities for Mass Communication graduates in media and communication industries. Newspapers, magazines, radio/TV Channels, Advertising and Public Relations Industries give preference to Mass Communication graduates for creative and management positions. With the boom in the electronics media industry in recent years, mass Communication degree holders are absorbed in the media even before their results are declared. Apart from media

even before their results are declared. Apart from media industries there are opportunities in other fields like teaching, research and information areas, at private and public sector institutions and business concerns.

Faculty Members

Professors

Dr. M. Shamsuddin, Dean, Faculty of Arts and Advisor to the Vice Chancellor

Dr. Fauzia Jafri

Dr. Tahir Masood

Dr. Mahmood Ghaznavi

Associate Professors

Mr. M. Inam Bari,

Ms. Rafia Taj (Chairperson)

Ms. Samina Qureshi

Lecturers

Ms. Fouzia Naz

Ms. Sadia Mahmood

Adjunct Faculty

Prof. Zakariyya Sajid

Prof. Dr. Nisar A. Zubari

Prof. Mateen-ur-Rehman Murtaza

Prof. Shahida Kazi

Further Enquiries

Telephone: 92-21-99261300-6, Ext.2278

Website: www.ku.edu.pk

Email:

kumasscommunication@yahoo.com

Department of **PERSIAN**

Introduction

The department of Persian was established in 1955 with a view to provide facilities for advanced studies and research in the fields of Persian language and literature with particular emphasis on the literature produced in the Indo-Pak subcontinent during the last nine centuries, and to familiarize the younger generation of this country with the history, language and literature of Iran. Professor Dr. Ghulam Sarwar was the founder Chairman of the department.

Facilities

Seminar: The seminar library holds a stock of more than 5000 books and 1500 journals. It also has a good number of rare printed works, audiotapes and discs. Besides, the personal collections of the teachers, which exceed 2000 titles, are also available to the readers within the premises of the department.

Additional Language Support Classes:

The department of Persian, in addition to regular classes, also makes arrangements for special conversational classes, which aim at developing the Persian speaking power of the student with correct pronunciation and accent. The department

has also recently acquired some necessary audiovisual equipment for this purpose.

Seminar/ Lecture Program: Another activity in the co-curricular program involves seminars and lectures to be delivered by renowned scholars on topics mostly relating to Persian language and literature. These programs aim at enhancing the academic capability and talents of the students.

Degree programs Available

- BS (Hons.)
- BS
- MS/Ph.D

Admission Requirements & Estimated Seats

BS (Hons.): Intermediate/DAE 40 Seats

BS (Third Year): 30 Seats

- i) Graduation (with Persian)
- ii) Graduation (with Diploma Khana –e- Farhang Iran, or Diploma in Persian Language from Karachi University.)
- iii) Graduation with Advanced Urdu

MS: BS/M.A. Persian

Ph.D.: MS/M.Phil Persian

Teaching and Assessment

Teaching at the department combines lectures, group discussions, quizzes and class presentations. Assessment is based on midterm, makeup and Terminal examinations. Dissertation is mandatory for Final year literature students.

Scholarships Offered

Gold Medal: Khawaja Moinuddin Gold Medal is awarded to the student who stands first class first in the M.A. examination. Some scholarships are awarded by the Cultural Centre of the Islamic Republic of Iran on behalf of their government under the cultural program to the students of BS classes and research scholars for M.Phil/Ph.D.

Career Opportunities

Students of this department continue to enter a variety of vocational fields, some of which are CSS, Advertising, Media, Banking, Business, Translation /Interpreting, Teaching, Educational Administration & Research, News agencies, Foreign Ministry etc.

Faculty

Professor

Dr. Rehana Afsar

Associate Professor

Dr. Saleem Noori (Chairperson)

Assistant Professor

Mr. Ramzan Bamari

Ms. Salma Latif

Dr. Faizah Zehra Mirza

Lecturer

Mr. Muhammad Nazir

Further Enquiries

Telephone: 92-21-99261300-6 Ext: 2280

Website: www.percian.ku.edu.pk

Department of **PHILOSOPHY**

Introduction

The Department of Philosophy was founded in 1952. It is the first department that came into existence in the faculty of Arts, University of Karachi. From the very beginning, the department has remained committed to fostering a wide variety of philosophical approaches and has struggled towards developing links between philosophy and other disciplines. The members of its teaching staff include Professors, Associate Professors, Assistant Professors and Lecturers. All teachers are strongly committed to teaching and research and have contributed significantly in the advancement of knowledge. Moreover, its senior faculty members have also served on important positions of responsibilities in the University administration and other government institutions.

Philosophy Department is committed to a variety of approaches. Researches pursued by its faculty members and students involve living issues of Philosophy, Meta-Logic, Phenomenology, Existentialism, Ethics, Analytical Philosophy, Concept of Self; Post Modernist Thought, Islamic Modernism, Philosophical Anthropology, Critical

Theory, Hermeneutics, Pragmatism, Aesthetic Theory, Consciousness Studies, and Philosophy of Mind.

Degree programs Available

- BS (Hons.)
- BS
- MS/Ph.D

Admission Requirements & Estimated Seats

BS (Hons.): Intermediate (Science, Arts, Commerce), Diploma in Fine Arts or equivalent 60 Seats

BS (Third Year): B.A., B.Com., B.Sc. or equivalent 60 Seats

MS: BS/M.A.

Ph.D.: MS/M.Phil

Faculty Members

Associate Professor

Dr. Zahoor H. Baber (Chairman)

Assistant Professors

Dr. Javed Iqbal Ameer

Dr. Shabbir Ahsen

Dr. Abdul Wahab Soori

Dr. Abdul Rahim Afaki

Dr. Zulfiqar Ali Meher

Lecturers

Abdul Khaliq Aboya

Syed Alam Shah Naqvi

Mr. M. Ateeque

Mr. Amjad Ali

Facilities

- Seminar library for students.
- Philosophy Research Center/ Computer lab. for M.S/ M.Phil / Ph.D. Students
- Student Advisory. Counseling/ Student week programs for Co-curricular activities and sports.
- Discussion groups, Essay competitions, Students Orientation, and Representations in various Institutional programs.

Teaching Assessment

1. Semester system teaching with mid term and terminal tests.
2. Class performance assessment/ Discussion group and presentations.

Career opportunities

Students' after passing out from the department can enter the fields of research, advertising, tourism, journalism, civil services, teaching and law.

Publications

1. Research Journal of Philosophy (Quarterly)
2. Research Article of Faculty Members in International Philosophical Journals.

Further Enquiries

Telephone No . 99261300- 6 Ext. 2271

Website: www.uok.edu.pk

Email: zhbabar@uok.edu.pk

Department of **POLITICAL SCIENCE**

The Department of Political Science was established in 1952. It has since then initiated programs for the award of research degrees of M.Phil and Ph.D in Political Science and its allied fields.

The Department of Political Science has been playing an important role in the overall development of the University. It has been the mother of the Departments of International Relations, Sociology and Public Administration. At present the department is second in the Faculty of Arts, after Economics, in terms of the number of students enrolled.

The Department has, since its inception, very qualified and competent persons in its faculty. Professor (Late) Ilyas Ahmed, Professor Dr. M. Aziz Ahmed; Prof. Dr. Manzooruddin Ahmed, Professor Dr. Syed Adil Hussain, Professor (late) C.A Salahuddin, Professor (Late) Waheeduddin Kadri, Professor (Late) Syed Sadique Hussain, Prof. (Late) Dr. Syed Shahid Ali Rizvi, Prof. (Late) Dr. S.Rizwan Ali Rizvi, Prof. Dr. Arshad S. Karim, Prof. Nihal Hasan Rizvi, Prof. Dr. Tanveer Khalid and Dr. Hafiz M. Abdullah Qadri have served the Department with distinction. Currently Dr. Nusrat Idrees is serving as head of the department.

Degree programs Available

- BS (Hons.)
- BS
- MS/Ph.D

Admission Requirements & Estimated Seats

BS (Hons.):

Intermediate (with Civics) 60 Seats

Intermediate Science or Commerce
with at least 50% marks) 10 Seats

BS (Third Year): B.A. (with Political
Science) 100 Seats

Facilities

The department has a fully functional Seminar Library with approx 2000 books. Most of the books are recent publications in the subject in both English and Urdu. The library also offers dailies, periodicals and research journals for reading to its students.

Computer Lab: A computer lab has been set up with 10 PCs. A computer instructor is specially hired for the job.

Teaching and Assessment

Besides regular lectures delivered in both English and Urdu by the faculty the students participate in Seminars/ workshops and group discussions. Special lectures by visiting faculty are also attended by students compulsorily.

Career Opportunities

In addition to teaching and research positions in academic settings, Political Science degree holders are prepared for careers at all levels of government as well as journalism, International business, International risk analysis and Political campaign organization their skills of surveys and statistical analysis is in high demand in the public and private sectors. Their knowledge and scientific education on current affairs, both national and international, caters to the needs of the job market especially competitive exams.

Faculty Members:

Professors

Dr. Tanveer Khalid

Dr. M. Ahmed Qadri

Associate Professors

Dr. M. Abdullah Qadri

Dr. Nusrat Idrees (Chairperson)

Assistant Professors

Dr. Samina Saeed

Dr. Summer Sultana

Lecturers

Mr. Muhammad Ali

Mr. Muhammad Kamran Khan

Mr. Shumail Qadri

Mr. Mehboob Hassan Muqaddam

Further Enquiries

Telephone: 99261300-6 Ext.2342

Department of **PSYCHOLOGY**

Introduction

The department of Psychology came into existence in 1954 under the Chairmanship of Professor Dr. Qazi Aslam. It had limited number of students and very few teachers. However it gradually attracted both students and teachers with the result that teaching and research psychologists like Dr. Haseen Uddin Zuberi, Dr. S.M.Hafeez Zaid, Dr. Farrukh Z. Ahmed, Dr. Afzal Imam and Dr. M.Wasim led the department to its present academic heights. It has now become one of the leading departments of the Faculty of Arts.

The department is located on the first and the second floor of a building of the Faculty of Arts, opposite to the main administration block of the university.

Since 1956, the teaching and practice of Clinical psychology has enjoyed popularity both amongst teachers and students of the department. Dr. Farrukh Z. Ahmad, the then chairperson, took active steps to establish a separate institute of clinical Psychology.

Besides teaching and guiding students, teachers are also engaged in conducting

research. Some of them have about three dozen papers published in local and foreign journals. The department's teachers are also members of the Sindh Psychological Association and the Pakistan Psychological Association. They participate in the annual conferences both as speakers and as executive members. They further act as subject specialists in the Provincial and Federal Public service commission for the appointment of teachers in colleges.

A number of activities both educational and recreational are carried out in both the semesters in the department. Seminars, lectures, mental health camps, picnics, students week, welcome and farewell parties etc are arranged for the students so that they remain updated with current happenings and also get a chance to take a break from study schedules.

Degree programs Available

- BS (Hons.)
- BS
- MS/Ph.D

Admission Requirements & Estimated Seats*

BS (Hons.): Intermediate Arts / Science
(with Psychology) 25 Seats

Intermediate Arts/ Science/
Commerce/ Home Economics/

Computer Science/ A-Level (with
First division) 18 Seats
DAE (with First Division) 02 Seat
BS (Third Year):
B.A./B.Sc. (with Psychology) 30 Seats
B..A./B.Sc./B.Com./ B.Sc. (Home
Economics) / BBA/BPA/BS
(Computer Science) with 1st
division 23 Seats
MBBS/B.E. (with 1st Division) 02 Seats

*Incase of vacant seats, allocation can be interchanged.

Facilities

Seminar Library: The department's library has a collection of over 800 books. This large collection includes latest publications, journals, encyclopedias and magazines. The library has a very comfortable and disciplined environment where students and teachers make use of the literature available.

Computers & Audiovisual Aids: The department has six computers, four overhead projectors, multimedia, two screens, a printer and a scanner.

Teaching and Assessment

Teaching is based on interactive class participation: group discussions, class presentations by students, assignments, research work etc to maintain interest and

make learning more effective. The use of audio visual aids brings out the creativity of teachers and students, and helps in improving their presentation skills. Assessment is based on class performance of students, their punctuality, assignments and particularly the semester examination results.

Scholarships Offered

So far there are no scholarships for students, but a fund is generated for needy students who cannot afford to buy books or pay exam fees.

Research Interests

The Faculty members are actively involved in pursuing their respective areas of interest in research. Some research topics include: women studies, Child development and relationship, Gender issues, community psychology, Therapeutic techniques and diagnosis, Organizational behavior, consumer behavior, Social psychological issues.

Career Opportunities

After doing their Masters in Psychology (Clinical/Industrial), students can pursue careers in any of the following fields: Organization, NGOs' The clinical setting, Research work, Educational institutes, law enforcement agencies, the armed forces.

Faculty Members

Associate Professors

Dr. Anjum Ara Jahangir
Mr. Haider Abbas Rizvi & Chairman
Mrs. Rubina Feroze
Dr. Anila Amber Malik
Dr. Sohaila Raees (FSL)

Assistant Professors

Mrs. Anwer Faheem
Mr. Jawed F.M. Khan

Lecturer

Ms. Farah Iqbal
Ms. Qudsia Babar
Ms. Ziasma
Ms. Amena Zehra Ali

Further Enquiries:

Telephone 99261300-6 Ext.2283

Website:

www.uok.edu.pk/faculties/psychology/index.php

Email: psychology_ku@yahoo.com

Department of Sindhi

Introduction

The Department of Sindhi was established in 1972. It started with a master's program only, but later on Honors program, certificate and diploma were also introduced. The Department also offers Sindhi as a compulsory subject in lieu of Urdu in B.A./B.Sc. and B.Com. (Honors) IInd year. In 2007 like other Departments of University of Karachi, Sindhi Department also started BS four years program and MS/Ph.D. The curriculum is regularly revised and updated by introducing the latest literature being produced by authors so that students can be kept well aware. Regular literary lectures are arranged to inspire the students and to make them aware of practical criticism, and develop skills of expressing their opinion. For the same purpose, scholars and critics are invited regularly for extension lectures. Interaction with literary figures is a regular feature of the department's activities.

The department of Sindhi has been actively contributing towards production of research & academic Literature by organizing seminars & conferences from time to time. These events result in

production of valuable literature in the form of monographs & books launched on such occasions. The department also plans to launch a quarterly Research Journal very soon to bring into line light research in and on Sindhi language & literature. Besides, the department also organizes excursions for students to various historical places for their close first hand interaction with history thus giving students a chance to triangulate their knowledge from books, observations and their own interpretations.

Degrees Available

- BS (Hons.)
- BS
- MS/Ph.D
- Certificate/Diploma in Sindhi

Admission Requirements

- BS (Hons.): Intermediate (Science, Arts, Commerce) with Sindhi as an optional/ compulsory subject
- BS Third year: Graduation (Science, Arts, Commerce) with Sindhi as an optional/ compulsory subject
- MS: Post Graduation in Sindhi
- Ph.D.: MS/M.Phil. in Sindhi
- Certificate course: Graduation or status as University students
- Diploma course: Certificate course passed

Estimated Seats

B.S (Hons.):	75
BS (third year):	75
M.S/Ph.D.:	25

Facilities

- Well-stocked seminar library
- Spacious well-equipped class rooms
- Auditorium for conferences and seminars

Career opportunities

The graduates find various openings of their career including teaching at Secondary, Higher Secondary and Higher Educational Institutions, with a boom in media industry, now they also join various electronic and print media outlets.

Faculty Members

Professors

Dr. Khursheed Abbasi (Chairperson)

Mr. M. Saleem Memon

Assistant Professors

Mr. M. Abid Shah

Dr. Abdul Ghafoor Memon

Mrs. Naheed Perveen

Lecturer

Mr. Rukhman Gul Palari

Inquiries/contacts

Telephone: 92-21-99261300-7 Ext. 2228

Website: w.w.w.uok.edu.pk

Department of **SOCIOLOGY**

Introduction

The department of Sociology is one of the prestigious departments of the University of Karachi. The department of Sociology was established in 1960. Later, to meet the urgent academic demands of society, programs on Criminology and Population Sciences were initiated under the umbrella of department of Sociology. The program offered by the department the program offered by the department are interesting and have a broad scope, and based on multidisciplinary approach.

Graduates from the department have adopted wide range of careers in active life. Most have excelled in their profession, and have joined public and private institutions like the Aga Khan University, NGORC, institute for Educational development, Population council, Islamabad and other famous Governmental and Non-Governmental Organization.

In the list of our graduates, Prof. Dr. Nizamuddin, Prof. Dr. Mehtab Karim, Dr. Iqbal Alam, Prof. Dr. Zamir Ahmed, Mrs. Shamim Kazmi, Mr. Sajid Ali, Mr. Rao Zulfiqar and so many are noteworthy for their notable achievements in academic

careers and research. Their services have been duly recognized by foreign experts.

The study in the department is well organized. The teaching faculty includes experienced Professors, inducing those with degrees from foreign universities. Research work is a hallmark of the department. Seminar and workshop are important characteristics of the department.

Facilities

The seminar library provides the students with over 3000 books, journals, magazines and other national and international periodicals. The department of Sociology / Criminology & Population Sciences has a well quipped computer laboratory, which provides assistant in almost all aspects of the use of information processing facilities. Ethnological Museum plays a pivotal role in the study of Art & Culture. On the basis of unique nature of artifacts and the variety of its collection, it portrays knowledge about different races, their culture and way of living, being one of the educational research centers.

Teaching Methods and Assessment:

The most important component of teaching is the combination of theory with its practical application. For this purpose teaching methods takes the form of

lectures and group discussion, class presentations, individual and group projects, case studies, workshops extended lecture and filed research with the use of audio visual assistant. Students' assessment involves evaluation, oral presentation, individual and group projects, written assignments', test results and performance in semester final examination and one of he assessment methods of this program is the compulsory attendance of student in the departmental library.

Degree programs Available

Morning Program

- BS (Hons.)
- BS
- MS/Ph.D

Evening Program

- BS (Hons.)
- BS
- Master in Criminological Sciences
- Master in Population Sciences

Admission Requirement & Estimated Seats

BS: Intermediate Arts 40 Seats
1st preference: 1st Division with Sociology
2nd preference: 1st division with Economics, Civics, Psychology,

Education, Social Work or Statistics.
3rd preference: Intermediate with 45% marks in Sociology
4th preference: Intermediate with Economics, Civic, Psychology, Education, Social Work or Statistics
Intermediate Science with at least 55% marks 5 Seats
Intermediate Commerce with at least 55% marks 5 Seats
BS (Third Year): B.A. 40 Seats
1st preference: B.A. (1st division with Sociology)
2nd preference: B.A. (1st division with Economics, Political Science, Psychology, Education, Social Work, Statistics, General History).
3rd preference: B.A. (with 45% marks in Sociology)

4th preference: B.A (with Economics, Political Science, Psychology, Education, Social Work, Statistics, General History).

B.Sc. with at least 50% marks 5 Seats
B.Sc. (Home Economics) with at least 50% marks 10 seats
B.Com. with at least 50% marks 5 seats
MS: BS/M.A. (Sociology)
Ph.D: MS/M.Phil. (Sociology)

Estimated Seats in Evening Program

BS (Hons.) 50 seats
BS (Third Year) 60 seats
Master in Criminology 50 seats
Master in Population Sciences 50 seats

Preferred Subsidiary subjects

Except Social Work, all subjects may be opted.

Faculty Members

Professor

Dr. Fateh M. Burfat

Associate Professor

Dr. Rana Saba Sultan (Chairperson)

Assistant Professors

Dr. Sobia Anis Shahzad
Dr. Nabeel A. Zubairi
Mrs. Farzana Zaigham
Mrs. Shahana Khan
Dr. Ghulam M. Burfat

Lecturers

Ms. Naila Usman
Ms. Kaneez Fatima
Ms. Munnaza Madani

Further Enquiries

Phone No.99261300-6 Ext.2286

Email:

fatehmuhammadburfat@gmail.com

Department of **SOCIAL WORK**

Introduction

The Department of Social Work was established in 1961. The main objective of the department is to analysis the problems of society and to prepare and educate students to work with the common people. As a research cum teaching department it has been able to earn a reputable place for itself in its existence of 48 years.

Social Work Department aims to motivate people in identifying problems and solve them with the help of social work students. Social Work focuses on Field Work along with different social theories rather than only teaching different disciplines. The subject indeed has transformed the concepts and tools of social sciences and humanities. The courses are designed to prepare student for higher degree in social work within Pakistan and abroad.

Degree Programs Available

- BS (Hons.)
- BS
- MS / Ph.D.

Admission Requirement

BS (Hons.):

Intermediate Arts 35 seats

Intermediate Science (Pre-Med.) 5 seats
Intermediate Science (Pre-Eng.) 5 seats
Intermediate (Computer Science)5 seats

BS (Third year):

B.A. (with Social Work) 35 seats
B.A. (with Sociology or Psychology) 10 seats
B.Sc. (with Biology) 5 seats

Facilities

The department of Social work has a well stocked library more than 1000 books, journals, reports and periodicals etc. The department also has a computer lab.

Teaching and Assessment

Students are involved in theoretical discussions, research activities, symposia, lectures and dialogues with different NGO's. Assessment is by means of examinations (semester examination and midterm tests) assignments and other written and oral presentation.

Career Opportunities

- Administrative position in NGOs and International Welfare Organization.
- Research Organization.
- Planning and Development, Government. Semi Government and private organization.

Research Activities

1. Research activities and thesis writing at Masters level is compulsory.

2. MS/Ph.D program introduced in 2008.
3. Six faculty members have completed Ph.D from the department and other three are working on their theses.

Faculty Members

Professors

Dr. Najma Farman (Chairperson)
Dr. Shama Aziz
Dr. Nasreen Aslam Shah

Associate Professors

Dr. Kulsoom Kazi
Dr. Muhammad Shahid

Assistant Professors

Ms. Husan Ara Shafi
Dr. Fakhrul Hoda Siddiqui
Ms. Farhana Safaraz
Ms. Samina Rauf
Ms. Sakina Riaz
Ms. Jugnoo Salahuddin

Lecturer

Mr. Nadeemullah

Cooperative Teachers

Mr. Anzar Hussain
Dr. Sumera Ishrat
Ms. Hasina Jamali

Further Enquiries

Telephone: 99261300-6 Ext.2284

Email: socialworkarts@yahoo.com

Department of **SPECIAL EDUCATION**

Introduction

The department of Special Education was established in the University of Karachi in 1988. The University of Karachi offers a regular program of studies in Special Education at the graduate as well as the post graduate level for students who intend to serve the Special need Community. During course of studies students are prepared to by Special Education and Rehabilitation experts.

The teaching faculty includes trained and experienced teachers with Masters and Ph.D. degrees in the discipline. The teaching in the Department is focused on developing independent and analytical thinking abilities in the student. The program is designed to provide students with opportunities to actually teach special children during the course of studies, so that they can get practical experience along with their academic learning.

Objectives of the Program:

- To develop high quality manpower in the field of Special Education.
- To prepare students to learn practical skills required to serve special need children and their families.

- To conduct research and develop recommendations of the welfare of special need children.
- To serve as a resource center for all Government and Non-Government organization, at both national and international level.

Degree Available **Morning Program**

- BS (Hons.)
- BS
- MS
- Ph.D.

Evening Program

- M.A. in Audiology and Speech Pathology
- Diploma in Audiology and Speech Pathology

Admission Requirement:

BS: H.S.C.

BS (Third Year): B.A./ B.Com., B.Sc./ M.B.B.S.

MS: Masters/BS in Special Education with First Class

Ph.D.: M.Phil/MS in Special Education

Diploma / Masters in Audiology and Speech Pathology: B.A./ B.Sc. (Biology)/ M.B.B.S.

Estimated Seats

BS (Hons.):	45 seats
BS Third Year):	45 seats
Special nominations from Govt. & non-Govt. Schools	20 seats
MS:	10 seats
Ph.D.:	05 seats
Diploma in Audiology & Speech Pathology:	45 Seats

Facilities

The Department has lecture and seminar rooms. Audio Visual Room, as well as a well stocked seminar library with most recent books. The department has equipment, which provides practical work facilities to students as well as provide exposure of practical teaching at Special Schools.

Teaching and Assessments

- Lecture method with emphasis on classroom discussion and feedback.
- Effective use of audio-visual aids for teaching learning purposes.
- Provision of expertise through resource persons and a regular program of extension lectures.
- Field visits for on the spot observation of special children, particularly, in the classroom children.
- Teaching practicum and workshops to provide practical training in special schools.

Career opportunities

Students of the Department of Special Education continue to enter a variety of educational, vocational and rehabilitation fields. Many are speech pathologists, audiologists, and teachers in different special education centers for mental retardation, physical handicap, hearing impairment, visual impairment, learning disability.

The graduates of the department get jobs in schools, hospitals, institutes, rehabilitation centers, directly or indirectly serving special need children.

Research Activities

- The department as part of its curriculum, initiates masters research each year in which issues related to special need children, their education, rehabilitation and life adjustment are studies.

- Beside, numerous studies are being conducted by research scholars enrolled in M.Phil / Ph.D., programs in special education on important topics.
- The faculty of the department is also very active and is engaged in research activities supported by the research facility center, University of Karachi as well as H.E.C. The areas of interest are Early Childhood Education, Family Support, Inclusive Education etc.

Publications

- An annual journal namely “Pakistan Journal of Special Education and Research” is being published by the department.
- Various books (Urdu and English) has been published by the Faculty members of the department.

Faculty Members

Professor

Dr. Shagufta Shahzadi, Chairperson

Assistant Professors:

Dr. Anjum Bano Kazimi

Dr. Shahida Sajjad

Dr. Nasir Suleman

Dr. Aqeela Khatoon

Information and Correspondence:

Telephone/Fax: 021-99261300-6,

Ext: 2212

Dir-Ph/ Fax: 99261085

E-mail: spe_edu@yahoo.com

Website:

www.uok.edu.pk/faculties/specialeducation

Department of URDU

Introduction

The department of Urdu officially came into existence in 1955 when the University of Karachi decided to organize postgraduate classes in Urdu under its own management instead of through the colleges.

At the time of its establishment, Moulvi Abdul Haq, 'Baba-e-Urdu', was made honorary professor and the Chairman of the department. Teaching responsibilities were carried out by the teachers of local colleges. Later Dr. Ghulam Mustafa Khan, a prominent scholar and professor at Urdu College Karachi, was appointed both as a cooperative teacher and as the Chairman of the department. In the same year, Dr. Abul Lais Siddqui was appointed as a Reader and Chairman and Dr. Abdul Qayyum, Dr. Syed Shah Ali, and Qudratullah Fatimi joined as lecturers.

With the valuable efforts and abilities of these teachers and scholars, the department has kept making progress. The following famous academics have been associated with the Urdu department. Dr. Syed Abul Khair Kashfi, Dr. Farman Fathe Puri, Dr. Aslam

Farrukhi, Prof. Jameel Akhtar Khan, Dr. Haneef Fauq, Dr. Younus Hasni, Shamim Ahmed, Prof. Sahar Ansari, Dr. Siddiqua Arman.

The department of Urdu has a prominent position in the University of Karachi for research. Over 75 people have completed their Ph.D. research program and approximately twelve projects are in progress.

In addition to regular teaching and lectures, co-curricular literary and academic activities and gatherings are also held frequently.

Degrees Programs &/ Estimated Seats

- BS (Hons.) 75 seats
- BS 60 Seats
- MS 35 Seats
- Ph.D. 10 Seats

Admission Requirements

BS (Hons.):

- i) Intermediate with Urdu Advance (at least 45% marks)
- ii) Intermediate with Urdu Compulsory

BS (Third year):

- i) Graduation with Urdu Advance (at least 45% marks)
- ii) Graduation with Urdu Compulsory

- MS: Post Graduation
- Ph.D.: MS/M.Phil.

Career Opportunities

Teaching, Media (T.V, Radio, Advertising Agencies), Research, Education, Academic Organizations, etc.

Teaching and Assessment

Teaching at the Department combines lectures, group discussions and class presentations. Students are also given writing assignments and selected final year students are required to submit a dissertation carrying 200 marks six weeks after the final examination of the last semester.

Faculty Members

Professors

Dr. Zafar Iqbal (Chairman)
Dr. Zulqarnain Ahmed

Associate Professors

Dr. Uzma Farman

Assistant Professors

Mrs. Sohaila Farooqui
Dr. Tanzeem-ul-Firdaus
Mrs. Rahat Afshan
Dr. Rauf Parekh

Lecturer

Mr. Sajid Khan

Further Enquiries:

Telephone: 92-21-99261300-6, Ext: 2287
Website: www.ku.edu.pk

Department of **VISUAL STUDIES**

Introduction

The Department of Visual Studies, established in 1999, has rapidly identified itself as a department that challenges existing art and design education in Pakistan. The courses are interdisciplinary and contextualized.

A strong theory component underpins the practical nature of these professional courses. A young and dynamic faculty leads the courses along with visiting faculty from professional fields and the university's own pool of excellent scholars.

These courses prepare students to take their place as designers and practitioners in the worlds of architecture, industrial design, textile design, graphic design, fine art, studio ceramics and crafted glass and Islamic Arts. The art History course opens routes for the development of critical theory, leading to careers in art writing and art administration.

All specialization follows a common, compulsory foundation year. Through projects of growing complexity, the students are guided towards their chosen area of specialization. The aim is to encourage the student of make informed

choices and to equip them to act as independent professionals once they leave the academic environment.

Workshops are offered in related fields. Visiting faculty from all walks of the life enhances the opportunities of students to widen their experience and engage with the larger issues within which they will practice. Further plans include a Masters program and an evening program of short courses.

Facilities

- Library
- Computer Lab
- Wood and Metal Workshops
- Ceramic Kiln and Pottery Wheels

Career Opportunities

Architecture: A 5 year program leading to a B.Arch. Degree

Career Options: Architectural design of buildings, urban-rural planning, architectural research, historical site management, interior design.

Textile Design: A 4 year program leading to a B. Design Degree.

Career Options: Textiles for home furnishing, apparel, carpet design, fashion accessories, print designer, stationary and gift wrap design etc.

Graphic Design: A 4 year program leading to a B. Design degree.

Career Options: Advertising Design, Exhibition design, Sign Systems Designer, Publishing/Editorial Design, Illustration, Television Production, Animation, Photography.

Industrial Design: A 4 year program leading to a B. Design degree.

Career Options: Product Designer, Exhibition Design, Set Design, Signage Design, Furniture Design, Transport Design.

Ceramics and Glass: A 4 year program leading to a B. Design degree.

Career Options: Fine artist, miniature painting, arts administration, gallery ownership, museum consultancy, set designing, art critic, art restoration, illustrator, video production and animation.

Islamic Art: A 4 year program leading to a B.F.A. degree

Career Options: Skills in Islamic Patterns, Calligraphy, Miniature Painting, Bookbinding, Ceramics, Architectural Detailing, Craft Management, Museum Consultancy, Research, Restoration.

Art History: A 4 year program leading to a B.F.A. degree

Career Options: Art Critic, curator, Art Book Publisher, Museum Officer, arts Administrator, Art Historian, Art Appraiser, Art Gallery Dealer.

Teaching & Assessment

Teaching at the department combines lectures, individual guidance, classroom projects and home assignments. Examination is held at the end of each semester. The pass percentage is 50% in each course and the result is calculated on the basis of class G.P.R. A student must have obtained a CGPR of 2.45 at least in order to be awarded a degree.

Courses Offered

- Industrial Design
- Graphic Design
- Textile Design
- Architecture
- Studio Ceramics and Glass
- Fine Arts
- Islamic Art
- Art History

Faculty Members

Ms. Durriya Kazi (Incharge)

Visiting Faculty

Mr. Sohail Zuberi
Mr. Munawar Ali

Mr. Rizwanullah Khan
Mr. Naseem Khan
Mr. Junaid Chaba
Mr. .Naji Akbar
Mr. Abdul Wahab Suri
Mr. Naveed Iqbal

Textile

Ms. Asma Habib
Mr. Masroor Haider
Mr. Shamoan Haider
Mr. Ahmed Murtaza
Ms. Bushra Alam
Mr. Kazim Shaigi
Mr. Omar Rehman
Ms. Hina Shahid

Fine Arts

Ms. Adeela Suleman
Ms. Remma Kaleem
Ms. Shazia Qureshi
Ms. Ayesha Khan
Ms. Sadia Mustafa
Mr. Babar Shaikh
Ms. Mehreen Zuberi
Ms. Uzma Noor

Industrial Design

Mr. Sabir Rizvi
Ms. Maroofa Hameedi
Mr. Iqbal Ahmed
Mr. Javed Akhtar Baloch
Mr. Ejaz Ahmed

Architecture:

Ms. Tahira Sadia Fazli
Mr. Naji Akbar
Ms. Samar Saleem
Mr. Fazal M. Quershi
Mr. Shahid Khan
Ms. Kausar Bashir
Ms. Sehar Mansoor

Graphic Design

Mr. Khurram Khan
Ms. Maheen Zia
Mr. S. Abdullah
Mr. Mehmud Ahmed
Mr. Sharjeel Ahmed
Mr. Tazeem Hussain
Mr. Suqlain Zaidi

Further Enquiries

Telephone: 92-21-99243131-7. Ext: 2239

Website: www.visstud.ku.edu.pk

Centre of excellence for WOMEN'S STUDIES

Introduction

The Centre of Excellence for Women's Studies was established in 1989 as a project of the Ministry of Women Development and Youth Affairs. Initially established for research, the Centre now offers Master's Degree in Women's Studies. As a research-cum-teaching institute, it has been able to earn a reputable place for itself in its short existence of 20 years. In 2002 the Centre initiated M.Phil. and Ph.D. program. From 2004 it has introduced the discipline of Women's studies as subsidiary course at BS First year level and in 2007 B.S 4 years program was launched. From January 2009 MS/Ph.D. classes started in which 7 students are enrolled.

Women's Studies aims at building a body of knowledge based on the lost for undiscovered lives of women. It is an interdisciplinary subject directed towards the critical reality. The subject indeed has transformed the concepts and tools of social sciences and humanities. The long term changes in the society can certainly be achieved through Women's Studies programs and course. The courses are designed to prepare students for higher

degree in women studies within Pakistan and abroad.

Degree Programs Available

- BS (Hons.)
- BS
- MS

Estimated Seats

BS (Hons.):	65
BS (Third Year):	50
MS/Ph.D.:	25

Eligibility

BS (Hons.): Intermediate or equivalent
BS (Third Year): Graduation
MS: BS or Masters or equivalent

Facilities

The Centre for Women's Studies has a well stocked library holding more than 3000 books, periodicals, journals and reports, etc. The documentation section of the library regularly maintains press clippings from the national press on themes related to women in Pakistan. The Centre is presently working on building its computerized data base. Special corner is allocated for Mohtarma Fatima Jinnah Collection donated by Ministry of Women & development.

Teaching & Assessment

Students will be involved in theoretical discussions, research activities, symposia,

lecture and dialogues. An invaluable feature of the course is to give the students direct experience in on-site field work experience that concludes with and an individual research project. Extension lectures relevant to the courses taught are regular features.

Assessment is by means of examinations (semester examination and mid term tests), assignments and other written and oral presentations.

Career Opportunities

- Administrative Position in NGO's and International Welfare Organization
- Research Organizations
- Planning and Development, Government, Semi-Government and Private Organizations
- Teaching

Publications

- Pakistan journal of Gender Studies – (published since 2008)
- “Beggars Girls of Karachi: A Survey”- A survey report funded by HEC, 2004
- “Female Home based workers: The Silent Work Force”- Funded by ILO, 2003
- “Trafficking of women and children in South Asia and within Pakistan: A national study”-A project of LHRLA supported by CIDE-Pakistan, 2000

- “Challenge for Change: Literacy for the Girl of Today, the Woman of Tomorrow”, 1995.
- “Directory of Experts & Research Persons in Women and Development in Pakistan“, 1994.

Research Funded by HEC

- The role of Women Councilors in Local government and its impact on Political Status of Women in Pakistan
- Girl Child: Issues & Challenges
- Women’s Experience of Religious and Social Traditions: Gender, Religious Authority & Development
- Islam in Pakistan

Ph.D. Thesis submitted:

- “Women’s Health, Sanitation and Education in Ghazi Goth, Gulshan-e-Iqbal, Karachi: An Ethnographic Study” by Dr. Sabeena Jalal Khan, 2009.
- “Trends of Internet Use amongst Female Librarians and Female Teachers” by Zareen Ilyas, 2009.

Ph.D. Enrolled:

Seven students including 04 faculty members are enrolled in Ph.D Program.

Faculty Members

Director

Prof. Dr. Nasreen Aslam Shah

Adjunct Professors

Prof. Dr. Tahira Aftab
Prof. Aslam Shah

Co-Operative Teachers

Ms. Shakeela Rehman
Ms. Shagufta Nasreen
Ms. Asma Manzoor
Ms. Aliyah Ali
Mrs. Saba Imran Ali
Ms. Nafisa Bano
Mr. Syed Faisal Hashmi
Mr. M. Nadeemullah

Further Enquiries

Telephone: 92-21-99261654

92-21-99261300 Ext: 2441

Email: cewsku@yahoo.com

cews@uok.edu.pk

AREA STUDY CENTRE FOR EUROPE (ASCE)

The Area Study Centre for Europe was established at the University of Karachi in the year 1974 by an Act of Parliament (ASC Act No. MVV, 1975). Recently all the area study centers (situated in the major universities of Pakistan) have been merged with their host universities. However, their autonomous character has been retained, allowing them a degree of autonomy in academic, research and administrative matters. The centre undertakes research at M.Phil and Ph.D level. The research findings of the Center's own research staff are published in the form of books, monographs and profiles. The centre also publishes the biannual journal of European Studies, with articles on contemporary European issues and related topics. The Center is now focusing its research on the European Union, its politics, law, competition policy, economics and external relationships. European Security, Common Foreign and Security Policy, Europe Pakistan relations, Europe and the Muslim World and Europe's relations with the developing world are also amongst the subjects of research and teaching at the Centre. Since the area Study Centers were established to provide

feedback to policy makers in the country, the Center also receives research proposals and assignments from the Foreign Office and other institutions and agencies of the Government of Pakistan. The Center offers courses in French, German, Italian and English languages at the certificate level and diploma in the French language.

Library: The Center has a modest but well equipped specialized library for research scholars and students. It has material on European history, politics, diplomacy, economy, culture, philosophy, law and legal institutions and contemporary developments in Europe. Lately the Centre has also begun acquiring books on European literature and Fine Arts. The material is in the form of books, documents, journals, magazines, newspapers and research boxes. The Centre's library facilities have been enhanced under the European Union sponsored European Studies Program. It has now acquired books on European Union related subjects.

Degree Programs Available/ Eligibility
M.Phil/Ph.D: Masters degree

Students are initially enrolled on a provisional basis for a two semester

course work in European Studies. After completing the course work they submit their thesis plans for approval by Karachi University's Board of Advanced Studies and Research (BASR). The students are then enrolled as full fledged M.Phil./Ph.D. students.

Seminars, Conferences and Workshops:

The Area Study Centre for Europe arranges lectures, seminars and conferences on contemporary issues concerning Europe and the latter's relations with the rest of the world. Local and foreign scholars, faculty members and senior students participate in these programs.

Publications of the Centre:

To-date the Centre has published 24 books, 3 indices and 11 profiles. The Centre regularly publishes the bi-annual Journal of European Studies since 1985.

Telephone No.9243131-7/2310

Email: naveed_asce@hotmail.com

APPLIED ECONOMICS RESEARCH CENTRE

Introduction

The Applied Economics Research Centre was established in 1973, with funding from the Ford Foundation and the Provincial Government of Sindh. From its inception, the Centre has undertaken research on issues in applied economics, with a particular focus on agriculture, human resources, urban and regional economics and public finance. With subsequent growth of the Centre, its activities have broadened to include the advance training of economists from all parts of Pakistan.

A major development in this connection has been the introduction of its own post-graduate degree program, the Master of Applied Science (Economics), which began in 1977. Since 1989, this has been upgraded to a M.Phil./Ph.D. program. The advanced studies in economics train students to work in research organizations, development agencies and the private sector.

Degree Programs Available

- MAS
- M.Phil. / MS
- Ph.D.

Admission requirement

- M.A./M.Sc. in Economics/M.Com./MBA or Masters in any other discipline or equivalent degree from any university recognized by HEC in at least 2nd Division.
- Admission Test of GRE Pattern and Interview

Estimated seats

- 45 (Morning)
- 45 (Evening)

Facilities

- Excellent research library (full depository of IMF, ADB and World Bank Publications)
- Well-equipped computer lab with latest software
- Highly qualified faculty
- Individual student counseling

Teaching and Assessment

Semester system as per University rules

Career opportunity

Graduates from AERC are currently holding high level positions in organisations like The World Bank, UNDP, State Bank of Pakistan, foreign universities and the private sector

Research activities

A number of research or consultancy services are undertaken each year for a variety of clients.

Publications

The Centre's own bi-annual journal the Pakistan Journal of Applied Economics (PJAE), is internationally referred and widely recognized.

Faculty members

There are 27 faculty members including 2 Professors, 4 Associate Professors, 06 Assistant Professor, 15 Lecturers

Further enquiries

Telephone: +92-21-99261541-3

Website: www.aerc.edu.pk

Email: aerc@cyber.net.pk

Department of **CHEMICAL ENGINEERING**

Introduction

Chemical Engineering deals with the application of physical sciences particularly Chemistry, Physics, and Mathematics to the process of converting raw materials or chemicals into useful and valuable forms at competitive prices. Chemical Engineering being a dynamic field is also concerned with the introduction of useful products, new materials and techniques, with due support of extensive research and development.

Chemical Engineering largely involves in the Design, Production and Maintenance of Chemical Process Industries. The development of the large-scale processes characteristic of industrial economics is also an important feature of Chemical Engineering. Indeed, Chemical Engineers are responsible for the availability of the modern high-quality materials that are essential for running an industrial economy.

In 1970 the Department of Applied Chemistry was established. To be more industrially oriented a program of Bachelor in Chemical Technology, a four years degree course, was launched from

the same Department in 1985. BCT program was upgraded to Departmental level in 2004. From January 2007 the Department is offering B.E. in Chemical Engineering.

Degree Available

- B.E. in Chemical Engineering.

Admission requirement

Inter Science with Chemistry, Physics, and Mathematics with at least 60% marks. Admission to be given on the basis of marks obtained in Inter-Science and test each having equal weightage.

Estimated seats: 40

Facilities

The department is equipped with appropriate number of laboratories and workshop facilities to conduct practical as per prescribed course outline.

Teaching & Assessment

The course consists of class room lectures plus laboratory practical. The courses are divided into 3 credit hours (without practical) and 4 credit hours (with practical). Four credit hours courses consist of 100 marks for theory and 50 marks for practical.

The assessment consists of a mid-term test (30 marks) and a terminal examination (70 marks). Practical

examination consists of performance and viva conducted at the end of semester.

The final year students have to go for internship arranged by the Department for a period of six weeks in various Chemical Process Industries. Each candidate has to submit a report and deliver a seminar. Each final year student also has to prepare a design project of 200 marks.

Career opportunities

There exists a wide scope of employment opportunities for Chemical Engineers from International companies to small locally based industries, from Petrochemicals to wet processing of Textiles. Many Chemical Engineers work as consultant, managing their own companies even.

Faculty members

Dr. Fasihullah Khan, (Chairman)
Engr. Ms. Shagufta Ishtiaque
Engr. Dr. M. Asad Hasan
Engr. Qaysar Raza
Engr. Saeed Ahmed
Engr. Muhammad Yasir,
Engr. Yasir Maqsood
Engr. Zeeshan Sadiq
Engr. Mehrish Munawar
Ms. Kehkashan Nawaz

Further enquiries

Phone# 99261300-06 ext. 2535
Email: ct@uok.edu.pk

Department of **ISLAMIC LEARNING**

Introduction

Department of Islamic Learning is one of the oldest departments in the University of Karachi. It was established to fulfill the needs of scholars of Islamic studies in various institutions of Islamic Republic of Pakistan.

The department is situated in a beautiful building of Islamic Studies near Masjid-e-Ibrahim where the students learn Islamic sciences like *Tafseer, Hadith, Seerah*, History, Islamic Jurisprudence, Principles of Islamic Jurisprudence, Mysticism, Ethics, Philosophy and Arabic. The department has produced scholars for educational, religious and social institutions who are serving the country and abroad. The department offers courses for Bachelors and Masters Degrees.

Degree programs & Estimated Seats

- B.S. (Hons.) 100
- B.S. 100
- M.S. 10
- Ph.D 02

Admission requirement

- B.S. (Hons.): Intermediate or equivalent

*Preference will be given to students who had optional Islamic Studies in Intermediate

- B.S. (Third year): B.A. with (Optional Islamic Studies)

Facilities

The students of the department use seminar library facilities of the faculty of Islamic studies where a good collection of books and journals on Islamic Studies is available.

The Faculty of Islamic Studies also has a computer lab for teaching and research activities.

Carrier Opportunities

Students passing out from this department are providing their services in educational institutions, research institutes, religious institutions and armed forces. Master or B.S. Degree holders can apply for any post of Grade – 17.

Faculty Members

Professors

Dr. Rehana Firdous (Chairperson)

Dr. Jalaluddin Noori

Mr. Ghulam Mehdi

Assistant Professors

Dr. Nasir Ahmed Akhtar

Dr. Obaid Ahmed Khan

Dr. Zahid Ali

Dr. Nasiruddin

Lecturers

Ms. Asma Begum

Mr. Muhammad Arif Khan

Research & Publications

The faculty members of the department of Islamic Studies are engaged in research projects funded by the university as well as on individual capacity. Their research articles are published in the journal of the faculty and in the reputed journals of Islamic Studies in Pakistan and abroad. The faculty members of the department also participate in the debate, discussions and talk-shows of different television channels and provide their views on different national and international issues of Islam and Muslim *Ummah* as well as dialogue among religions.

Further Information

99261300-6 Ext: 2390

Department of **QURAN-O-SUNNAH**

Introduction

The Department was established in 2000. Master's Degree Programme is available in this department. All the Students who have passed B.A. or *Shahadat-ul-Aliya* from Wafaq ul Madaris and other Madaris are eligible for admission. Those candidates who did only *Shahadat ul Aliya* are required to submit complete equivalence certificate issued by the University of Karachi.

Degree programs & Estimated Seats

- M.A. 50
- M.S.
- Ph.D

Admission requirement

- M.A.: i) B.A. with (Optional Islamic Studies)
ii) Al-Shahadat Al-Aalia with matric from any SSC Board**

**These candidates are required to submit complete equivalence certificate issued by the University of Karachi along with their application forms.

Career Opportunity

After passing M.A. there is vast scope in Schools, Colleges, Universities, Madarasas as teachers; other venues such as banks are also available.

Research Activities

The research activities in the department are remarkable such as:

1. To write thesis on M.A. level is a part of research activities.
2. At least 10 PhDs have been produced from the establishment of this department till now.
3. There are hundred students who have been admitted in M.Phil. / Ph.D.

Publications

The department has also its own research Annual journal named "Ihya ul Uloom". Its fourth volume is going to be published.

Faculty Members

Dr. Musarrat Jahan (Incharge)
Dr. Shahnaz Ghazi
Dr. Zeenat Haroon
Dr. Mufti Imran Ul Haq Kalyanvi

Further Information

99261300-6 Ext: 2324

Department of **USOOL-UD-DIN**

Introduction

Department of Usool-ud-Din was established in 2000 to fulfill the need of scholars of Islamic Studies in various institute of Islamic Republic of Pakistan. Islamic Sciences like Tafseer, Hadith, Seerah, History of Islamic Jurisprudence & Arabic are some of the courses that are being taught at the Department.

Degree Programs

- B.S. (Honours)
- M.A.
- MS/Ph.D.

Admission Requirements

B.S. (Hons.): F.A., F.Sc., I.Com, or Equivalent

M.A. (Previous): B.A., B.Sc., B.Com., Shahadat ul Aalmiya* with B.A.

*These candidates are required to submit complete equivalence certificate issued by the University of Karachi along with their application forms.

Estimated Seats

B.S. (1 st year)	50
M.A. (Previous)	50

Facilities

The students of the department use seminar library facilities of the faculty of Islamic studies where a good collection of books and journals on Islamic Studies is available. The faculty of Islamic studies has also a computer lab for teaching and research activities.

Teaching & Assessment

Teaching and assessment is done under the semester system as per rules of the University of Karachi.

Career Opportunities

Students passing out from this department are providing their services in educational institutions, research institutes, religious institutions and armed forces. Master or B.S. Degree holders can apply for any post of Grade – 17.

Research Activities

Thesis in M.A. & MS/PhD. Programs is available for the research fellows.

Publication

Research Journal is expected from the department.

Faculty Members

Professor

Dr. Hisamuddin Mansori, Chairman

Cooperative Teachers

Dr. Abida Sultana

Dr. Talat Siddiqui

Further Enquiry

Telephone: 99261300-6 ext. 2220

Department of **COMMERCE**

Introduction

The Department of Commerce University of Karachi has been instrumental in providing candidates with thorough knowledge and understanding of the principles of commerce and business. The BS four years and M.Com program are structured on team based learning, class presentations, case studies, field research reports and other reference materials, to combine academic theory with practical problems, seminars and workshops on current economic and business issues are also organized in the Department. These methods of study not only provide excel in personal development but also prepare the students to accept future challenges in the fast growing corporate world. It is for these reasons that our M.Com degree holders have been well received by the national and international commercial concerns.

Objectives of the Department

- Equip students with analytical tools required for Business Management in today's highly competitive world.
- Proceeds opportunity to students to explore new business world by enabling them making optimal business decision via strategic planning.

- Prepare students for reactive work that positively contributes the enjoying development in their respective field.
- Blend class room lectures and out door research qualities in such a way that will make students well aware to the extent of practically of abstract theory.

Degree Programs Available

Morning Program

- BS (Hons.)
- M.Com
- MS/Ph.D

Evening Program

- BS (Hons.)
- M.Com. (General)
- M.Com (Insurance)

Admission Requirement

BS (Hons.): Intermediate or equivalent
M.Com: B.Com.

Estimated Seats & Eligibility

Morning Program

BS (Hons.):
Intermediate Commerce 30 seats
Intermediate Science & Arts 30 seats
M.Com.: 100 seats

- Admissions to BS (Hons.) program are granted on the basis of an aptitude test.

- Minimum Qualifying marks in the entrance test is 50% (Fifty percent)
- Merit list of Candidates qualifying in the Entrance Test will be prepared for final selection as per following weightage:
 - a. Prerequisite Academic Record 60%
 - b. Entrance Test 40%

Evening Program

BS (Hons.):
Intermediate Commerce 30 seats
Intermediate Science & Arts: 30 seats
M.Com. (General): 100 seats
M.Com (Insurance): 60 seats

Facilities

- Seminar Library
- Computer Lab
- Common Room
- Auditorium

Computer Lab is under the process of renovation and up gradation. The Seminar Library is fully equipped with latest books, magazines and research journals that help students enhance their knowledge and skills.

Co-Curricular Activities

Other than the regular Academic Activities the Department of Commerce is also engaged in inviting guest speakers from Corporate Sector and also arranges

Management Conferences every year. In these conferences, the department of Commerce invites different Speakers from leading organizations. The department of Commerce is also engaged in holding debates and other such activities; which enhance the quality of Education.

The objective of the Department of Commerce is to advance human progress through an economic, political and social system based on individual's freedom, incentive, initiative, opportunity and responsibility.

Apart from the quality of its courses, the first class teaching and academic skills as well as professional experience of its faculty, Department of Commerce, promotes a truly international atmosphere.

Teaching & Assessment

The students are provided with up-to-date knowledge through classroom lectures, seminars, conferences, case studies, class presentations and research reports.

The program is assessed by a mixture of continuous assessment and examination. Generally students are expected to take notes during lecturers and participate in seminars and work group. If students have any problems or concerns they can

contact Student Advisor for help and guidance.

Career Opportunities

The majority of post graduates enter in employment immediately after their studies. Students have an outstanding record of going on to jobs in business and management or working for themselves or studying further, we encourage work experience or job placements and internships. Our placement companies include PSO, Shell, Unilever, P&G, Indus Motor, Nissan Motor, SBP, other Banks and DFI's, PIA, SUPARCO, etc.

Research Activities

MS/Ph.D program has recently been designed and introduced by the department to carryout research in Management, Marketing and Finance areas. The department disseminates its research and provides exceptional postgraduate teaching. The aim of the department is to provide a supportive research environment with senior academicians and research fellows working together on team based projects.

Publications

The department has a tradition to encourage Research & Publication work. Numerous articles and research papers

have already been published in the magazines of international repute by the faculty members. The department is planning to publish its Graduate directory on Annual basis as well.

Faculty Members

Associate Professor

Ms. Dilshad Zafar, Chairperson

Assistant Professor

Dr. Tahir Ali

Lecturers

Mr. Zaeema Asrar

Mr. Arfeen A.Siddiqui

Mr. Hasan Raza,

Ms. Ifrah Saher

Ms. Sadaf Mustafa

Visiting Faculty

Mr. Shahabuddin Lakhani

Mr. Abu Ahmed

Mr. Uzair Mirza

Mr. Mushtaq Madras Wala

Mr. W.A. Razzaki

Mr. Muhammad Javed

Mr. Rizwan Athar

Further Enquiries

Telephone: 9261300-06 Ext: 2213

Website: www.ku.edu.pk

Email: dz1312@hotmail.com

Department of **PUBLIC ADMINISTRATION**

Introduction

Department of Public Administration was established in 1995 as full-fledged department of University of Karachi. However in 1987, a 2- year MPA program and 1-year PGDPA were initiated in Department of Political Science. Realizing the significance of this study in the professional field Department of Public Administration (DPA) was instituted separately. DPA started with PGDPA in evening sessions with specializing in Human Resource Management, Marketing Management, Financial Management, Management Information system, and development strategies.

Realizing the value of Public Administration as a separate professional course, the University of Karachi initiated a new 2 year degree program. Recently, department of Public Administration played a significant role by representing University of Karachi at the meeting of University Grants Commission when specialization was approved for the MPA graduates. The course has been redesigned to meet the challenging demand to train the managers. MPAs

today are playing a pivotal role in progress of different organizations and looking at the future demands of professional, it can be predicted that Public Administration graduates will continue playing their major role in the development of economy and country both.

Today, department of Public Administration has a professional body of highly experienced and devoted faculty members. Its premises have all necessary arrangements that turn an ordinary building into a place where knowledge seekers can quench their thirst. Its library has a large collection of an educational treasure that guides future administrators. Its computer lab has a big set-up of latest equipment that's helps students get ready for the challenges of 21st century in public and corporate world.

The philosophy behind MPA program is to prepare the future managers to take up the challenges of practical world and to help students understand the managerial tasks that come up in real life situations. MPAs have double advantages over other graduates as they are not only aware of the administrative issues of public sector but they also know the ways and means to tackle the administrative dilemmas that

confront the private sector. And this is the specialty of this program. Gone are the days when MPA was supposed to be an individual busy dealing with governmental affairs. Now, an MPA is a real professional of the modern public & private sectors.

Degree/ Diploma/ Program Available

Morning Program

- BSP.A. (Hons) 60 Seats
- MPA(Previous) 50 Seats
- MS / Ph.D

Evening Program

- BSP.A (Hons.)
- MPA (Prev.)
- MAS
- PGDPA
- MHRM
- CPD course in HRM Marketing & MIS
- Multiple short courses in HRM & Marketing

Admissions Requirement / Estimated Seats

Morning Program

- BSPA (Hons.): Intermediate or equivalent 60 Seats
- MPA(Prev.): Graduation 50 Seats
 - Minimum qualifying marks in the entrance test is 50% (Fifty percent)

- Merit list of Candidates qualifying in the Entrance Test will be prepared for final selection as per following weightage:

- Prerequisite Academic Record 60%
- Entrance Test 40%

Evening Program

- BSPA (Hons.):
Intermediate or Equivalent 60 Seats
DBA with Mathematics/DAE 10 Seats
- MPA (Prev.) 50 Seats
- MAS 120 Seats
- PGDPA 120 Seats
- MHRM 40 Seats
- CPD course in HRM Marketing & MIS
- Multiple short courses in HRM & Marketing

Facilities

To facilitate the students, DPA has a well-equipped computer lab with internet facility, the seminar library with latest books & subscription of various leading magazines & journals, a seminar hall & conference room for workshops and presentations, prayer room & wide open lawns for out door activities.

Also helping the students in their academic or personal issues, teachers provide them with student advisory and consultancy, to groom them as real-time

professionals able to cope with their future problems themselves.

Teaching & Assessment

DPA has a semester system with 4 months of teaching & 1 month of examination. Per semester approx. 45 classes are held per course with 100 marks assessment including hourly, mid-term, research projects, reports, presentations, internships & a final exam.

Career Opportunities

Because of dual significance of our program over other degrees, our graduates are highly appreciated & demanded by the practical market offering them various management positions in Public & private concerns, nationally & internationally in all kind of field ranging from public services to FMCGs, banking, education, telecommunication, etc. currently many of our graduates are retaining senior management posts in many firms and earning in 6 figures.

Research Activities

A strong research environment flourishes at DPA with involvement of students in various research projects & reports, organizational visits, seminar & workshops and writing of research articles.

Publications

DPA publishes two students magazines annually, "Occular" & "Efficacy" in morning & evening programs respectively and a journal of management & administrative sciences would be published very soon.

Faculty Members

Professors

Prof. Dr. Akhter Baloch, Chairman
Prof. Dr. Abu zar Wajidi, Dean
Faculty of Management & Administrative Sciences

Associate Professor

Dr. Kahlid Iraqi

Lecturers

Dr. Shahbeeb-ul Hassan
Mr. Shahid Zaheer
Ms. Ghazal Kawajah
Ms. Afsheen Nizam
Ms. Saima Akhter

Further Enquiries

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Ext: 3406, 2383

Website: www.dpa

Email: dpa@uok.edu.pk

KARACHI UNIVERSITY BUSINESS SCHOOL

Introduction

Karachi University Business School (KUBS) was established in the year 1999-2000 because Institute of Business Administration (IBA a constituent of University of Karachi) was declared autonomous degree awarding institution.

KUBS within short period of eight years has become well established institution with good reputation and high image in the business world. KUBS is presently offering a number of programs, namely BBA (Honors) four years, MBA (Direct) morning two years and evening three years programs.

MS/Ph.D. programs have recently been started and the courses are in progress. MBA (Banking and Finance) two years professional program is also run jointly with Institute of Bankers Pakistan (IBP). The admission is separately announced. KUBS has plans to start short term certificate programs in the fields of financial management, marketing communication, brand management, services marketing and MIS.

The KUBS is temporarily housed on first and Second floors of Commerce building. The mission of KUBS is to educate the leaders who make a difference in this time of extraordinary change throughout the world. KUBS is committed to impart our students general management education focused on building a deep understanding of business, teaching with skill and passion. We follow a field-based education with emphasis on problem-focused research and the case method of instruction. Also we intend to imbibe a spirit of entrepreneurship and creativity among our students and prepare them for a global community that is increasingly reliant on technology.

“We Prepare Right Leaders for the Right Organization”.

Admission Requirement

BBA (Hons) and MBA (Direct)

1. Candidates must have passed their pre-requisite examinations in at least second division with 50% (Fifty percent) marks.
2. Minimum qualifying marks in the entrance test is 50% (Fifty percent)
3. Merit list of Candidates qualifying in the Entrance Test will be prepared for final selection as per following weightage:

- Prerequisite Academic Record 60%
- Entrance Test 40%

Estimated Seats

BBA (Hons)	50 Seats
MBA (Direct)	50 Seats

Students Attendance & Discipline

Almost full attendance is desirable in the interest of students themselves. However, leaving an allowance of exigencies like sickness, a minimum of 85% is required, according to the decision of Academic Council. A students having more than six absences in a course will not be allowed to take semester examination and he/she will get an “F” grade (failure) in the course concerned.

Discipline in regularity of attendance and classroom teaching is strictly followed. Faculty members are responsible to monitor and assure that rules and regulations are strictly adhered to by the students.

Teaching and Assessment

1. In addition to regular faculty members, eminent faculty is also drawn from outside business organizations to share with students their practical experience specially in

those courses which are practical oriented.

2. Case studies, class presentations, questions-answers session, seminars etc. are regularly conducted.
3. Periodical assessment of student performance through terminal exams, and final exam is done. Term papers and research reports are also produced in almost all courses by the students.

Career Opportunities

Tremendous opportunities in the field of Banking, Finance, and Marketing in national and multinational organizations. Our graduates are in great demand and highly paid jobs are offered to them.

Research Activities

With the starting of MS / Ph.D. programs we expect to extent research programs in future.

Faculty Members

Dr. Abdul Rehman Zaki, Chairperson

Dr. Ali Askari

Ms.Shahnaz Baloch

Mr.Muhammad Asim

Mr.Shameel Zubairi

Ms.Kausar Qureshi

Mr.Asifuddin

Further Information

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Faculty of **PHARMACY**

Introduction

The Faculty of Pharmacy of the University of Karachi owes its origin to the Department of Pharmacy, which was established in 1964. The Department of Pharmacy was founded in response to the need of better drug delivery system in hospitals and retail pharmacy, and also to cater the ever growing need of pharmaceutical industries because 90 percent of the drug based industry in Pakistan, both national and multi-national, is located at Karachi.

The Department of Pharmacy was raised as the first full-fledged Faculty of Pharmacy in the country. The faculty comprises four teaching and research departments viz. Pharmaceutics, Pharmaceutical Chemistry, Pharmacognosy and Pharmacology. More than 1800 regular students are today pursuing their studies leading to the award of Pharm. D., M. Pharm., M. Phil., M.S. and Ph.D degrees.

Eligibility

Students possessing educational qualification of H. S. C. (Biology Group) or equivalent with a minimum of 60%

marks ('B' grade) are eligible to apply for admission to the Pharm. D. program. In addition, the three- and four-year degree holders can upgrade their degrees to Pharm. D. (five-year degree program) after completion of deficiency courses.

Seats Available

200 seats are available on merit basis for Pharm. D program in morning + reserved seats including foreign students.

50 seats are available for one year program for the students holding four year degree in order to upgrade to Pharm. D. (five years program).

Lab. & Library Facilities

The Faculty of Pharmacy has well equipped laboratories in all the four departments, fully capable of catering the teaching and research needs of the various programs offered. Moreover, there is a good library of the faculty. Furthermore the Faculty has an Institute of Pharmaceutical Sciences under its auspices so as to give more impetus to scientific and technological research and development.

Career Opportunities

Pharmacy as a distinct profession forms the edifice of the health care system on

which lies success of well-being of the community. With the rise of population world wide during the last few decades, it has been realized that the conventional traditional medical and healthcare services are unable to pay any significant role in the overall improvement of health status. This realization has driven all health professionals to the common goal of disease prevention and health promotion. In developed countries the clinical direction of Pharmacy has laid emphasis on the manipulative product-oriented and distributive skills and focuses more on the public health awareness. Today the Pharmacy profession has become highly patient-oriented which this has created much more opportunities for the pharmacists in hospital and community especially in the USA and the Middle East, while in Pakistan still 75% opportunities are in the industrial sector.

Research Activities

The Faculty of Pharmacy has so far produced around 70 Ph.Ds and 175 M.Phils. Moreover around 1200 research papers have so far been published in reputed national and international journals by the faculty members. The Faculty takes keen interest in organizing lectures, seminars, conferences and workshops so

as to share and update knowledge of the faculty members and students.

Publications

To share the research conducted by the Faculty members the Faculty publishes a highly reputed journal entitled “Pakistan Journal of Pharmaceutical Sciences” recognized by the HEC in “Y” category. Apart from this, an annual magazine namely “FARMACIA” is also being published which contains articles authored by the students on different topics. Besides, a newsletter “PHARMA TIMES”, covering different activities in the Faculty, is also brought out every semester by the students.

Dean, Faculty of Pharmacy

Prof. Dr. Syed Waseemuddin Ahmed

Department of Pharmaceutics Professors

Dr. Fouzia Hassan, Chairperson
Dr. Nighat Razvi
Dr. S. Baqir Hassan Naqvi

Assistant Professors

Dr. M. Harris Shoaib
Ms. Shaista Hamid
Dr. Shahnaz Gohar
Dr. S. M. Fareed Hassan

Lecturers

Ms. Sabahat Jabeen
Ms. Rehana Saeed
Mr. Naeem Iyad
Ms. Rabia Ismail Yousuf

Department of Pharmaceutical Chemistry

Professor

Prof. Dr. Muhammad Arif

Associate Professors

Dr. Faiyaz H M Vaid, Chairman
Dr. Kamran A. Chishti
Dr. Mansoor Ahmed

Assistant Professors

Mr. Afaq Ahmed Siddiqui
Dr. Shamim Akhtar
Dr. Nousheen Mushtaq
Dr. Sohail Hassan

Department of Pharmacology Professor

Dr. Rafeeq Alam Khan

Associate Professor

Dr. Rahila Najam, Chairperson

Assistant Professors

Ms. Tasneem Mariam
Dr. Syeda Afroz

Lecturers

Ms. Afshan Siddiqui
Ms. Sadia Ghousia Baig

Department of Pharmacognosy Professors

Prof. Dr. Mansoor Ahmad
Prof. Dr. Shahida Siddiqui
Prof. Dr. Ghazala H. Rizwani

Associate Professor

Dr. Iqbal Azhar, Chairman

Assistant Professors

Ms. Farah Mazhar

Dr. Mohtasheem-ul-Hasan

Department of **AGRICULTURE &** **AGRIBUSINESS MANAGEMENT**

Introduction

Department of Agriculture was initiated as BS-Program in Agriculture in 2004. It acquired the status of the Department in 2006 and renamed as Department of Agriculture and Agribusiness Management in 2008. The department offers specialized courses in “Agribusiness Management” and “Plant Protection”.

Agribusiness is an important and ever expanding industry in Pakistan. Agribusiness Management is a multi-disciplinary program that provides opportunities to a wide range of careers in the Agricultural and other land-based industries. It combines the study of agricultural sciences with the management skills providing an understanding of economic and business principles and their application to Agribusiness. This program is aimed to develop a range of personal and transferable skills, and critical appreciation of the techniques to assist effective execution of the agribusiness management function.

Pests and diseases produce huge pre- and post-harvest losses in crop yield that

contributes a great deal to the ever increasing food crises. Implementation of efficient and precise pest and disease management strategies can be helpful in increasing the crop yield and ultimately to boost the economy of the country. Courses offered for specialization in Plant Protection enables the students acquire in-depth knowledge of pest and diseases affecting crop, vegetable, fruit and ornamental plants in the country as well as the management strategies to overcome the problem.

Degree Programs Available

- BS (Hons.) (Morning & Evening)
- BS (Morning & Evening)
- MS (Leading to Ph.D.)
- Ph.D.

Admission Requirements

- BS (Hons.): H.S.C. Science or equivalent
- BS (Third Year): B.Sc. (Agriculture)
- MS (Leading to Ph.D.): BS or B.Sc. (Hons.) in Agriculture
- Ph.D.: MS or M.Sc. Agriculture

Estimated Seats

- BS (Hons.): 50
- BS (Third year): 25
- MS/Ph.D.: 15

Facilities

The department is well equipped with modern teaching aids. It also has facilities

for research on topics related to fields of entomology, mycology and plant pathology. A seminar library with a good collection of books related to agriculture and agribusiness is also available.

Teaching and Assessment

During the first two years, courses related to different fields of agriculture are taught to develop good background knowledge of the subject. From the third year, students can choose either Plant Protection or Agribusiness Management as their field of specialization. Assessment is done as per semester rules that include midterm, Make-up and terminal examinations, and a lab examination or an assignment. In the final semester, internship in either a research or agribusiness related organization is mandatory.

Career Opportunities

Specialization in Agribusiness Management would be helpful in getting jobs in agro-based national and multinational organizations as managers, consultants, supply chain coordinators, farm managers and accountants. It also provides an opportunity to enter self-employment immediately upon graduating, largely within the farming or food sectors.

Students specializing in Plant Protection have job opportunities in various research and service organizations like Plant Protection, PARC, PCSIR, NIAB, NIA, ARI, Seed testing and production organizations etc., as well as in plant and pesticide related national and multinational organizations. They can also serve as farm managers.

Research & Publications

The department is actively involved in research. Research project on entomology, mycology and plant pathology sponsored by HEC and ALP-PARC are in progress. Several research students are also enrolled for M.Phil./Ph.D. programs.

The faculty members and research students regularly publish research papers in journals of national and international repute.

Faculty Members

Professor

Dr. Saleem Shahzad (Chairman)

Adjunct Professors

Prof. Dr. Jaffar H. Mirza
Prof. Dr. M. Jalaluddin
Prof. Dr. Mushtaq Hussain
Prof. Dr. Imtiaz Ahmed

Visiting Faculty from PARC

Dr. Anwar Arain
Dr. Zia-ul-Hassan
Dr. Amjad Pervaiz
Dr. Tahir Akmal
Mr. Ikhtlaq Ahmed
Mr. Shamim Iqbal
Syed Asim Rehan Kazmi
Mr. Pervaiz Ahmed Balooch
Mr. Bhugro Mul
Mr. Kamran Buksh Soomro
Ms. Ambreen Ansari

Interdepartmental Faculty

Prof. Dr. Abuzar Wajidi (Dean, Faculty of Administrative and Management Sciences)
Prof. Dr. M. Zafar Iqbal (Deptt. of Botany)
Prof. Dr. S. Shahid Shaukat (Deptt. of Botany)
Prof. Dr. Shafiq-ur-Rehman (Deptt. of Economics)
Prof. Asim Jamal Siddiqui (Deptt. of Statistics)
Prof. Dr. Anwar Zaidi (Deptt. of Mathematics)
Prof. Dr. Shahina Fayyaz (NNRC)
Dr. Shahnaz Ghazi (Deptt. of Quran-o-Sunna)
Ms. Rashida Fahim (Deptt. of Mathematics)
Dr. Syed Shabib Husain (Deptt. of Public Administration)
Mr. Mehmood Azam (Deptt. of Food Science & Technology)
Mr. Sajid Khan (Deptt. of Urdu)

Ms. Qamarunnisa (KIBGE)
Mr. S.M. Khalid Jamal (Deptt. of Computer Science)

Co-operative / Visiting Faculty

Mr. Jawaid A. Shaikh (Islamia College)
Mr. M. Moinuddin (Superior Sci. College)
Dr. Muhammad Abdul Rab Farooqui
Mr. Mirza F. Akhtar Ahsan
Mr. Imran Furrukh (Lackson Tobacco Co.)
Syed Shahwar Hasan (Toyota Motors)
Mr. M. Talha Azeem
Syed Rameez Hasan Rizvi
Mr. Shahan Aziz
Mr. Saleem Ejaz
Ms. Fouzia Imam
Mr. M. Tariq
Ms. Huma Zaidi
Ms. Shama Khursheed
Ms. Huma Sidra
Mr. Mujeeb Akram
Mr. Asad Manzoor
Ms. Iffat Irfan
Ms. Shafaq Saher
Ms. Shagufta Siddique
Ms Sabeen Habib
Mr. Safia Hameed
Ms. Sobia Mannan

Further Enquiries

Telephone: 021 99261300-06 ext. 2546
Website: www.uok.edu.pk/agriculture
Email: sshahzad@uok.edu.pk

Department of **APPLIED CHEMISTRY**

Introduction

The department of Applied Chemistry was established in 1971 and was shifted to its new building in 1987. The courses have been designed keeping in view the need of the chemical industries of Pakistan and with due consideration of courses of foreign and local Universities offering similar program. Special emphasis has been put on important chemical industries of Pakistan, for instance, fertilizers, refineries, cement, sugar, polymers, pharmaceuticals, textiles, etc. Due consideration has been given to important aspects of chemical engineering like unit operations, unit processes, quality control & instrumentation, thermodynamics reaction engineering, design engineering, materials engineering, maintenance and environmental engineering, etc. Hence it is hoped that the graduates of this department will meet the needs of the chemical industries of Pakistan.

Degree Programs Available:

- BS (Hons.)
- BS
- MS
- Ph.D.

Estimated Seats

- BS (Hons.) (Morning): H.S.C.: 96
D.A.E: 15
- BS (Hons.) (Evening) H.S.C. 45
D.A.E: 05
- BS (Third Year): 12
- MS/Ph.D.: 10

Admission Requirement

B.S: H.Sc. /A-Level (with Physics, Chemistry & Math) /D.A.E. (Chemical Technology)

MS: BS/M.Sc. (Applied Chemistry)

Ph.D: M.Phil. / MS in related field

Facilities

Seminar Library equipped with most recent books various subjects, Computer Lab and facilities of DSL internet accessing facility, well equipped laboratories for undergraduate and graduate level courses.

Teaching and Assessment

Teaching and assessment are done under semester system as per University rules. Assessment includes: makeup/midterm (30 marks), terminal (50 marks) and lab / Assignment (20 marks).

Career Opportunities

Excellent job opportunities exist in industries of Pakistan and abroad excellent research opportunities.

Faculty

Professor

Dr. S. Ishrat Ali

Associate Professors

Dr. Mehdi Hasan Kazmi (Chairman)

Dr. Riaz Ahmed

Assistant Professors

Ms. Amtul Rashid Shaista,

Mr. Abdur Rashid

Mr. M. Ashraf Kamal

Ms. Shagufta Afaq

Mr. Mohib Raza Kazmi

Lecturer

Mr. S. Mumtaz Danish Naqvi

Mr. Zahid Farhad

Ms. Farah Inamullah

Ms. Nausheen Yaseen

Ms. Farah Siddique

Ms. Sadia Khan

Further Information

Telephone: 9261300-06 Ext:2279

Department of **APPLIED PHYSICS**

Introduction

The Applied Physics department was established in 1971. The objective was to teach and train students to meet the growing technological needs of the industries of Pakistan in the area of Applied Physics. Over the years emphasis has shifted toward Electronics and semiconductor technology because of the growing demand of technologically advanced industries in Pakistan. The syllabus has been continually updated to keep abreast with development in the technology.

Our objective is to prepare students to take-on challenges of the fast growing technologies in the field of Electronics and Semiconductors. The curriculum provides in depth understanding of the subjects such as Analog and Digital Electronics, Industrial Electronics, Semiconductor Devices, Communication systems including Microwave and optical fiber communications.

Microprocessor/Microcontroller and Digital Signal Processors (DSP) are hubs of intelligent electronic systems including computers and almost all state-of the-art

equipment used in Communications, Industrial and Medical applications use these devices. A comprehensive scheme of study and applications is provided for these subjects.

To teach practical aspect of electronics and give hands-on experience, laboratories have been equipped with latest equipments. Students are required to spend a considerable time in the laboratories to develop in depth understanding of the subject they study in classes. For this purpose separate laboratory courses are designed. The laboratory training begins with circuits related to basic Analog Electronics, progressively perform experiments on Digital Electronics, Industrial Electronics and finally develop a single board computer based on microcontroller. The students are also trained on Programmable Logic Controllers (PLC) through the use of software and hardware simulators. Similarly, they are trained in the field of communications using Communication training kits.

Degrees offered

- BS (Hons.) with specialization in Electronics
- M.Sc. with specialization in Electronics

Estimated Seats

BS (Hons.)	40
M.Sc.	60

Eligibility:

1. BS: H.S.C./A level with Physics and Mathematics
2. M.Sc.: B.Sc./BE or equivalent with Physics and Mathematics

1. Admissions to BS (Hons.) and M.Sc (Prev.) programs are granted on the basis of an aptitude test.

2. Minimum qualifying marks in the entrance test for BS (Hons.) or M.Sc. program is 50% (Fifty percent)

3. Merit list of Candidates qualifying in the Entrance Test will be prepared for final selection as per following weightage:

- Prerequisite Academic Record 50%
- Entrance Test 50%

Facilities

There has been continuous up gradation of laboratories in the department. In addition to general purpose laboratories where students perform experiments on circuits based on Analog and Digital electronics, separate laboratories are established for training.

- **Computer Laboratory:** The computer laboratory is equipped with latest branded computers which are connected through LAN. A range of software tools are available to develop programs and applications.
- **Communication Laboratory:** This laboratory is equipped with trainers to train students on Microwave and optical fiber communication systems.
- **Programmable Logic Controller (PLC):** This laboratory is equipped with PLCs from Siemens and Ge-Fanuc. Students use Software and Hardware simulators to develop and verify programs. Cargo lift, Conveyor belt and process models have been developed indigenously that are controlled by the PLC.
- **Embedded systems laboratory:** This laboratory has been equipped with software and hardware tools such as VHDL, Electronic Design automation to develop embedded systems. Computer Controlled (CNC) PCB prototyping machine, Logic Analyzer, FPGA and DSP kits are available for development of applications.

- **Semiconductor Research Lab.:** This laboratory is equipped with instruments such as thin film coating unit, CV analyzer, Spectrometer, Lock-In-Amplifiers etc. for research in the field of semiconductor.

Recently, a new building has been added to improve the existing classrooms and laboratory facilities. The department is linked with high speed optical fiber network of the university providing internet facilities.

The department offers a congenial teaching environment since all classrooms and laboratories are air-conditioned. Teaching aids like overhead projectors and Multimedia projector are available.

Carrier Opportunities

A wide range of employment opportunities are available to the graduates of the Applied Physics, from public sector organizations to multinational and national industries and research organizations.

Teaching and assessment

Semester system as per university rules

Publications

Faculty members regularly publish in journals and participate in conferences.

Faculty

Professors

Dr. Najeeb Siddiqui (Chairman)
Dr. Shahid H. Zaidi
Dr. M. Ayub Khan Yousufzai

Assistant Professors

Mrs. Farida Kazi,
Mr. Abid Hussain
Mr. Arshad Hussain
Mr. Zeeshan Alam Nayyar

Cooperative Teachers

Mr. Zia-ur-Rehman
Mr. M. Usman
Miss Nazia Sadiq

Further Enquiries

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Department of **BIOCHEMISTRY**

The department of Biochemistry is the producer of largest number of biochemists in Pakistan. The department was established about 46 years ago and is currently awarding BS (Hons), M.Sc., M.Phil./ MS and Ph.D. degrees. The department also caters for the subsidiary requirement of students in allied biological subjects. The academic staff of the department consists of well-qualified and devoted teachers out of which 17 have Ph.D. from foreign or national universities.

Programs Available

- BS (Hons.)
- BS
- MS
- Ph.D.

Admission Requirements

- BS (Hons.): H.Sc. (Pre-medical)
- BS (Third Year): B.Sc. with Biochemistry or B.Sc. Medical technology) with Physiology and Biochemistry
- MS BS / M.Sc.
- Ph.D.: M.Phil./MS

Estimated Seats:

- BS (Hons.): (Morning) 70
(Evening) 70
- BS (3rd.Yr): (Morning) 40

Facilities

- Well-equipped laboratories
- Lending Library
- Common room for girls

Carrier opportunities

Graduate students usually get employment in

- (1) Pharmaceutical industries
- (2) Food Industries
- (3) Clinical Laboratories
- (4) Research institutes

Research Activities & Publications

The department offers research courses and research thesis at BS, MS & Ph.D. level. The department faculty publishes about 40-50 research articles per year in national and international Journals and is efficient in presenting papers in seminars and symposia.

Faculty Members

Professors

Dr. Darakhshan J. Haleem
Dr. Nikhat Siddiqui
Dr. Naheed Akhter (Chairperson)
Dr. Viqar Sultana
Dr. Tabassum Mahboob
Dr. Samina Bano

Associate Professors

Dr. Tahira Perveen
Dr. Saida Haider

Dr. Siddiqa Jamal
Ms. Hajra Naz
Ms. Farhat Batool

Assistant Professors

Dr. Shamim Akhter
Mr. Sajjad Haider (on study leave)

Lecturers

Ms. Sadia Saleem
Ms. Asma Khan (on study leave)
Ms. Erum Shireen
Mr. Adnan Qadeer (on study leave)

Adjunct Professors

Prof. Dr. Saleha Hasani
Prof. Iqbal Mehmood Kidwai
Prof. Dr. Shakila Jahangeer
Prof. Dr. Aziza Khanum

Visiting Staff

Prof. Dr. M.A. Haleem
Prof. Dr. M. Ishaq
Prof. Dr. Abid Azhar
Prof. H.S.A. Ather
Prof. Dr. Shamshad Zarina

Further Inquires

Tel. No.: 99261300-6 / Ext. 2289

Department of **BIOTECHNOLOGY**

Introduction

Biotechnology is defined as the application of biological systems to basic and technical and industrial processes. These processes are based on the use of some form of biological catalyst in the conversion of a substrate to a desired product. These biological catalysts are simple as enzymes or highly complex microorganisms or eukaryotic cells.

Biotechnology includes a wide range of activities. Each activity is associated with its own starting material (bacterial, fungal, yeast, plant or animal cells or enzymes), technical manipulation (cell fusion, cell or enzyme immobilization, genetic engineering, etc.), processes (continuous and batch fermentation), and scale (small to very large), which are unique to that activity.

Scope of Biotechnology

Biotechnology can be viewed as a group of useful, enabling technologies with wide and diverse applications. It has large, highly profitable, modern industrial outlets of great value to society e.g., DNA recombinant technology, most revolutionary branch of the modern science and have a profound impacts on

medicine, contributing to the diagnostics and cure of hereditary defects and serious disease and the development of new biopharmaceutical drugs and vaccines for human and animal use. It also deals with the modification of microorganisms, plants and farm animals for improved and tailored food production and to increased opportunities for environmental remediation and protection. New technologies dealing with plant and animal breeding are much faster and have lower costs. Genetically modified crops are growing exponentially. The field is further exemplified with the industrial production of enzymes like proteases, amylases, celluloses, lipases etc., industrial manufacturing plants for milk and milk products, alcohols, organic acids, antibiotics, vitamins, growth promoting factors, monoclonal antibodies etc.

The Department of Biotechnology

The Department of Biotechnology was established in 1996 with the specific objective of imparting quality education in the multidisciplinary field of Biotechnology at both undergraduate and postgraduate levels.

Programs Available

- BS (Hons.)
- BS
- MS/Ph.D.

Estimated Seats

BS (Hons.):	60
BS (Third Year):	50

Eligibility for Admission / Estimated Seats

- BS (Hons.): Intermediate (Pre-Medical/ Pre-Engineering) **60 seats**
- BS (Third year): B.Sc. with one subject being Microbiology or Biochemistry **50 seats**

1. Admissions to BS (Hons.) and BS 3rd year programs are granted on the basis of an aptitude test. Knowledge of basic mathematics and proficiency in English language shall form part of the aptitude test.

2. Minimum Qualifying marks in the entrance test for BS (Hons.) or M.Sc program is 50% (Fifty percent)

3. Merit list of Candidates qualifying in the Entrance Test will be prepared for final selection as per following weightage:

- Prerequisite Academic Record 50%
- Entrance Test 50%

Faculty

A highly qualified faculty that includes visiting professors from allied departments and sister organizations are involved in imparting quality education.

Associate Professor and Chairman

Dr. Mustafa Kamal

Assistant Professor

Ms. Syeda Mariam Siddiq

Lecturers

Mr. Syed Amir Iqbal

Ms. Raheela Rahmat

Ms. Shumaila Rashid

Ms. Erum Hanif

Ms. Shafaq Aiyaz Hassan

Further Information

Telephone: 99261300 –6 Ext. 2474, 3474

Department of **BOTANY**

Introduction

The Department of Botany at the University of Karachi was established in 1953. The University at that time was located on Chand Bibi Road (Princess street) near Civil Hospital Karachi. The University moved into its present premises on 18th January 1960 and the Department was initially located in 2 barracks which are now the clinic. The present building of the Department of Botany with laboratories, lecture rooms and an auditorium was later constructed in the late 1960s. The laboratories of the department are fairly well equipped.

The Department offers over 70 different courses of studies at the undergraduate and post graduate levels to cater to the human resource requirements for teaching and research in the fields of education, agriculture, environmental NGOs, pharmaceuticals and other industries. In the first and second year the students begin by taking Botany as a major subject together with 2 subsidiary subjects in other departments of the University. Starting with the diversity of plant life, an outline of the classification of plants, their identification, structure and function, it

continues with genetic basis of variation and evolution of plants.

In the 3rd and 4th years, the subsidiary subjects are not continued and the students studying Botany for BS degree take up different courses in Botany. Students with a B.Sc. (Pass) degree in Botany seek admission to BS 3rd year. In BS Final year, the students specialize in one of the branches of Botany which are Applied Botany, Mycology & Plant Pathology, Plant Physiology, Plant Ecology, Phycology & Marine Botany and Plant Taxonomy.

Degree Programs Available

- BS (Hons.)
- BS
- MS
- Ph.D.

Admission Requirement

- **BS (Hons.):** Intermediate Pre-Medical or equivalent with at least 45% marks
- **MS:** BS/M.Sc. in Botany and allied subjects
- **Ph.D.:** MS/M.Phil. in Botany

Estimated Seats

- | | |
|-------------------|-----|
| • BS | 100 |
| • BS (Third Year) | 50 |
| • MS/Ph.D. | 50 |

Facilities

The Department is fairly well equipped with all necessary and modern lab and library facilities. It has also facilities for research on topics related to different fields in plants sciences and mycology (including plant pathology). The Karachi University Herbarium in the Department of Botany has a collection of more than 150,000 plant specimens collected from different regions of Pakistan besides a large collection of specimens of algae and fungi. The departmental seminar library has a good collection of text books and research papers.

Teaching & Research

The Department offers over 70 different courses at the graduate and post graduate levels to address the needs of the society in the field of agriculture, education, environment, horticulture, pharmacology, pharmacology etc. More than 76 students are presently involved in research studies leading to M.Phil. /Ph.D degree. The department of Botany at the University of Karachi has developed a large and productive research and teaching group in plant sciences. Members of the faculty are working in many specialized fields of plant sciences and are endeavoring to enhance our knowledge of the plant world. Member of the teaching staff have completed

about 50 research projects with the support of national and international funding agencies. Currently several research projects are in progress.

Career Opportunities

Specialization in different branches of plant sciences offered by the Department is helpful in getting jobs in agriculture based organizations, teaching in various colleges and universities and in environmental NGOs like WWF and IUCN.

Publications

More than 2000 research papers have been published in journals of international repute by the teachers and researchers of the Department. The Pakistan Journal of Botany and International Journal of Biology and Biotechnology are also published from the Department of Botany, University of Karachi.

Faculty Members

Professors

Dr. M.Ajmal Khan (Presently on lien at Institute of Halophytes)
Dr. Surayya Khatoon (Chairperson)
Dr. Muhammad Javed Zaki
Dr. Syed Muhammad
Dr. Ehtesham ul Haque
Dr. Aliya Rehman
Dr. Raiha Qadri
Dr. Shahnaz Dawar

Associate Professors

Dr. Bilquees Gul
Dr. Anjum Parveen
Dr. Rubina Abid

Assistant Professors

Dr. Seemi Aziz
Mrs. Rubina Iqbal
Dr. Irfan Aziz
Dr. Salman Gulzar

Lecturers

Ms. Neelofer Hamid
Mr. Zamin Shaheed Siddiqui
Ms. Maria Hamid
Mrs. Amna Ahmed
Ms. Sadaf Gul

Further Enquiry

Telephone – 99261300-06 Ext. 2288
Website – www.uok.edu.pk/botany

Department of **CHEMISTRY**

Introduction

Chemistry is a central science which helps to understand the origin of life and suggest ways to use non-living things for giving comfort to life. To train the young generation and to direct their approach to accomplish this task easily, it is necessary to make the students understand the principles underlying the composition, structure and properties of substances along with the transformation that they undergo. It is therefore obvious that chemical orientation cannot be imparted in isolation and has to be developed through a cocktail of physics and biology on one hand and engineering and applied sciences on the other. The Department of Chemistry, University of Karachi is well equipped for pursuing this goal having skilled and proficient faculty, well equipped laboratories and other infrastructure.

The Department of Chemistry is one of the oldest departments of University of Karachi. When the university was shifted to its present location, the department occupied one of the few newly constructed buildings and is still housed there for the last 49 years.

Degree programs

- BS (Hons.) (Morning & Evening)
- BS (Morning & Evening)
- MS
- Ph.D

Admission requirement

- BS (Honours): Intermediate (Science)
- BS (Third Year): B.Sc with Chemistry

Estimated seat

- BS (Hons.):

Intermediate Science	120
DAE	05
- BS (3rd Year): B.Sc. with Chemistry

Pre-engineering	30
Pre-Medical/Geography/Geology	70

Facilities

There are several libraries at the University of Karachi, which hold chemistry books and related technical journals. These include Department of Chemistry's own Seminar Library. This library has a stock of about 10,000 books and research journals on various fields of chemistry. The Department of Chemistry is equipped with many modern instruments for training of students for challenging careers and research. These include, pH/Ion meters, conductometers, polarimeters, refractometers, potentiometers, electrochemical analyzers, HPLC,

atomic absorption spectrometers, UV-Visible spectrophotometers, FTIR Spectrometers, Guoy Balance for magnetic susceptibility measurements, flame photometers, computers, deionizers, analytical balances, ovens, furnaces, centrifuges as well as a substantial stock of glassware and chemicals. A modern instrument laboratory has been furnished to house the new atomic absorption spectrometer, HPLC, GC, GC-MS nuclear magnetic resonance spectrometer as well as some other modern instruments. These and other instruments were acquired through a generous grant of Rs. 39.95 million provided by the Higher Education Commission. The department of chemistry has a internet available in almost every room/lab class rooms, which is to the central facility through a fiber-optic link. Furthermore, the department also a sell equipped computer lab for 45 students.

Teaching and assessment

The teaching at the University of Karachi is done under the semester system. An academic year is divided into two semesters of approximately 16 weeks duration.

Assessment includes midterm/ makeup (30 marks), terminal (50 marks) and lab / Assignment (20 marks).

Career opportunities

A person with a BS degree in chemistry has a wide choice of employment opportunities especially in one of the many industries listed below and research institutions that are emerging in the country. These include the: Textile industry, Pharmaceutical Industry, Clinical laboratories, Oil refineries Chemical industry, Paint industry, Cement industry, Beverages & Food product industry, Analytical & instrumental services, agencies, Polymer industry.

Research activities

In recent years many candidates of this department have completed M.Phil and

Ph.D and most of them are now working in renowned and esteemed institutions and industries in all over the world. Every year the researchers of the department publish more than 50 research papers and books. Currently there are over forty faculty members; twenty four of them are holding Ph.D degrees. Many of our teachers and students have presented their research in international conferences/seminars and most of them are pursuing vigorous research programs within the limited resources.

Publications

Over 50 years the department has awarded more than 7000 B.Sc. (Hons.) and M.Sc degrees. Besides, above 100 research scholars have completed their M.Phil and Ph.D degrees. Furthermore, Department of Chemistry is also supervising B.Sc. (Pass) degree program

at 30 different colleges in the city, which are affiliated with University of Karachi.

Faculty members

Through its 45 qualified academic faculty, it provides excellent environment for graduate and post graduate education in all the disciplines. The department was launched through Professor Dr. Sadik Antonof, the founder head of the department. Professor Dr. Zahida T. Maqsood is the present Chairman of the department.

Further enquiries

Website:

<http://www.uok.edu.pk/faculties/chemistry>

Telephone No. 99261300-7, Ext. 2290

Email: chemistry@uok.edu.pk

Department of **COMPUTER SCIENCE**

Introduction

The Department of Computer Science was established by a resolution of Academic Council in its meeting, held on November 27, 1984, and it began functioning in the academic year 1985-86 by offering a Degree Program in Master of Computer Science and become one of first Computer Science and Technology institutions imparting education in Karachi.

To further strengthen the discipline Of Computer Science by producing high quality, professionals with sound fundamental knowledge, the department started BS (Computer Science) in the year 1996, a four years degree program leading to MS (Computer Science), a two year program after completing the BS

The work on the new building of the Department of Computer Science has been completed and very soon the department would be shifted to the new building.

Programs Available

- BS (CS) (Morning / Evening)
- BS (SE) (Evening)
- MS/PhD

Estimated Seats

- BS (CS) Morning): 120
- BS (CS) (Evening): 120
- BS (SE) (Evening): 60

Admission Requirement

BS Program: At least 55% marks in:

- i) HSC with Mathematics, or equivalent
- ii) DAE (Mechanical/Electrical/ Electronics)

- Admissions to BS (Hons.) and BS 3rd year programs are granted on the basis of an aptitude test. Sample test paper and other relevant information is available at www.csku.edu.pk
- Minimum Qualifying marks in the entrance test for BS (Hons.) or M.Sc program is 50% (Fifty percent)
- Merit list of Candidates qualifying in the Entrance Test will be prepared for final selection as per following weightage:
 - Prerequisite Academic Record 40%
 - Entrance Test 60%

Facilities

Computer Lab Facilities: The new building of Department of Computer Science also has fully equipped labs with latest equipment for students to get hands-

on experience on different platforms and work on different programming aspects of computer science. Each lab is equipped with latest high end user computing facilities.

Seminar Library: The Department also provides an in-house seminar Library facility, which contains more than thousand books on Computer Science/IT subjects along with IT/CS magazines, Journals & Periodicals.

Career Opportunities

Excellent career opportunities exist for the graduates of Department of Computer Science. Almost 70% of our graduates are immediately employed by top ranking software houses and the rest get good jobs in the industry.

Research Activities & Publications

The active researchers at the Department re engaged in research activities all round the year. As a result, many publications in reputed international journals and conferences are presented during the year.

Faculty Members

Meritorious Professor

Dr. S. M. Aqil Burney (Chairman)

Associate Professor

Dr. Nasir Touheed (on FSL)

Assistant Professors

Mr. Badar Sami
Mr. Syed Jamal Hussain
M. Sadiq Ali Khan
Mr. Nadeem Mahmood
Dr. Tahseen Ahmed Jilani

Lecturers

Mr. Tafseer Ahmed
Mr. Syed Asim Ali

Mr. Farhan Ahmed Siddiqui
Mr.S.M. Khalid Jamal
Ms. Erum Shahid
Mr. Hussain Saleem
Ms. Humera Tariq
Mr. Muhammad Naveed Anwer
Mr. Muhammad Sajid
Mr. Muhammad Saeed
Mr. Jameel Ahmed

Further Enquiries

Telephone: 99261300-7 Ext: 2462 / 3462

Website: <http://www.csku.edu.pk>

Email: info@csku.edu.pk

Department of **FOOD SCIENCE &** **TECHNOLOGY**

Introduction

History: The Department was established in 1994 and to cater to the need of the fast growing food industries in the country and also to meet the ever growing demand for food scientists & technologists in government, research and educational establishments. Prof. Dr. Rashda Ali was the founder of the Department and she was the first Chairperson of Food science and Technology from 1994 to 1998. The department over the years has developed research in collaboration with universities in Germany, Britain and USA. It constantly arranges workshops and seminars on Food Science. The department enjoys a very good rapport with both National and Multinational food industries in Pakistan.

The department has the following aims & objectives:

- To produce qualified food technologists for Food industries, teaching and research organization.
- To provide diagnostic analysis of food products.
- To establish links between Teaching/ research institutions, government,

commercial organizations and consumers.

- To preserve, process and manipulate the agricultural crops to avoid post harvest losses.
- To protect our environmental condition from deterioration of food.
- To introduce novel, nutrition's economical value added food products for local consumption and export.
- To incorporate the food industry waste for new products development.
- To provide consultancy and advisory services of food industries
- To establish international collaboration with food science departments and food processing industries by exchanging of students & staff.
- To organize function for creating awareness about the importance of safe processed nutritious food.

Programs Offered

- BS (Hons.) (Morning & Evening)
- M.S leading to Ph.D.

Admission Requirement

- BS (Hons.): Intermediate science (with Chemistry) or equivalent
- MS: M.Sc. / BS

Estimated Seats

BS (Hons.):

Pre-Engineering	24
Pre-Medical	06

Facilities

The new building for the Department Food Science & Technology comprises on eight major laboratories, equipped with all basic facilities. The laboratories include Food Engineering lab, Food Chemistry Lab, Food Microbiology Lab, Food Quality Control Lab, Food Analysis Lab, Food Biochemistry Lab, Analytical Lab and Computer Lab.

Seminar Library: With About 1000 books and studying facilities and computerized catalog.

Career Opportunities

The Degree holders may work as:

- Food Technologist
- Food Engineer
- Food Chemist
- Food Analyst
- Production Manager
- Quality Control Manager
- Quality Assurance Officer
- Product Application Officer
- Food Inspector
- Food Researcher

In the following areas:

Food Pharmaceutical and Cosmetic Industries; Ministries of Health,

Education, Food & agriculture and Science & Technology; Academic and Research Organization; Airlines; Hotels and Hospital, UNESCO, WHO, FAO, Food industries in Pakistan, Middle East, Europe, USA & Canada etc.

Research Activities

Numerous research activities and problem related with public concerned and food industries conducted time to time. These researches publish in national and international reputed journals.

Faculty Members

Professors

Dr. Syed Asad Sayeed, Chairman
Dr. M. Abid Hasnain
Dr. Jehan Ara

Assistant Professors

Mr. Rehmanullah Siddiqui
Dr. Shaheena Naz

Lecturers

Ms. Faiza Abdur Rab
Mr. Mehmood Azam
Mr. Feroz Alam Jafri
Ms. Ayesha Siddiqui

Cooperative Teachers

Mr. M. Abdul Haq
Mr. S. M. Ghufuran Saeed

Prof. Dr. Rashda Ali (founder and ex-Chairperson of FST) has been conducting the M.Sc. Classes as HEC eminent scientist.

Further Enquiries

Telephone: 99261300-6 Ext.2613

His Highness Dr. Syedna Burhanuddin
Department of
GENETICS

Introduction

The science of Genetics started out as a study of inheritance of traits from parents to offspring in the early 20th century. Recently the life-sciences in general have emerged as multidisciplinary subjects and genetics has now been recognized as the single most fundamental science among all of the life-sciences. Due to the exponential pace of advancement that genetics has enjoyed in the past few decades, especially after the Human Genome Project, it is now finding more and more applications in the health sciences. During the course of its development genetics has a firm foothold in improving the quality of all kinds of biological produce. Moreover, its new role as a genetic-tool has allowed many allied sciences to reach new heights especially in the industrial applications of living things collectively called biotechnologies and also cloning, and gene therapy.

The Department of Genetics established in 1969 at the University of Karachi, offers the degrees of M.Sc., MS and Ph.D. in Genetics. A bachelor's program is expected to start soon. All of these

programs are conducted by a staff consisting of highly qualified faculty that includes seven PhDs.

The department takes great pride in maintaining an intellectual and cognitive atmosphere in order to promote learning and to provide to its students an experience they will remember fondly for the rest of their lives.

Admission Requirements

M.Sc.:

- B.Sc. with Biology subjects including Zoology, Botany, Microbiology, Biochemistry, Physiology, and Chemistry.
- B.Sc. with Psychology, Geography, Geology or Statistics with any two subjects mentioned above.
- B.Sc. Medical Technology, B.Sc. Agriculture, B.Pharm. or equivalent.
- B.Sc. (Honours Biology Group) second year with an application for conversion through chairperson.

MS leading to PhD:

- M.Sc. in genetics or allied subjects (biochemistry, microbiology, physiology).
- Graduates holding MBBS degree may also be admitted to this program provided they pass the make-up courses.

Estimated Seats

- M.Sc. in Genetics: 72
- MS in Genetics leading to PhD: 10

Facilities

In addition to the standard learning facilities the department maintains an in-house seminar-library as well as computer clusters in the Bioinformatics Lab. Some in-house recreational facilities are also available for healthy activities of the students. There are four research labs for MS and PhD students.

Teaching and Assessment

Undergraduate students learn in a conducive and comfortable environment with modern teaching aids in classrooms and labs as well as computer labs. Assessments are done as university policies.

Career Opportunities

Since late, Genetics is being applied in many diverse fields of science and industry. Main application of genetics include: medical diagnostics; enhancement of agricultural, livestock, and poultry products; industrial microbiology and biotechnology. There are many fields in the industry requiring manpower highly skilled in genetics in general, genetic engineering and molecular biology in particular.

Research Activities

With a focus on the genetic phenomena in nature various different research programs exist including microbial genetics, plant genetics, human genetics and biotechnology involving all the teaching faculty of the department.

Publications

All of the faculty members of the department have contributed numerous publications to scientific knowledge nationally and internationally.

Faculty Members**Professors**

Dr. Farzana Nasir Naqvi
Ms. Talat Haider

Adjunct Professor

Dr. Ahsan A. Vahidy

Assistant Professors

Dr. Obaid Y. Khan (**Chairman**)
Dr. Fouad M. Qureshi
Dr. Maqsood A. Ansari
Dr. Shakeelur Rehman. Farooqui
Ms. Simeen Mansoor

Ms. Tazeen Moshin
Dr. Uzma Badar

Lecturers

Ms. Ayesha Riaz
Dr. Erum Shoaib

Further Enquiries

Website:

www.uok.edu.pk/faculties/genetics

Telephone:

+92-21- 99261300-06 Ext 2218/3218

E-mail:

genetics@uok.edu.pk

Department of **GEOGRAPHY**

Introduction

Department of Geography is one of the premier departments of University of Karachi, established in November 1952. Internationally known geographers and teachers including the young and enthusiastic faculty members have eminently served the Department. Department of Geography organizes teaching for the Graduate and Post Graduate courses including M. Phil and Ph.D. research programs.

Programs Offered

- BS (Hons.)
- BS
- MS
- MS (GIS & Remote Sensing)
- PhD

Eligibility

BS (Hons.): Intermediate (Pre-Eng, Pre-Med, Arts with Geography)

BS (Third Year):

MS : M.Sc or BS in Geography

MS (GIS & Remote Sensing):

- M.Sc / M.A/BS in Geography
- BS/M.Sc in Allied sciences

Ph.D.: MS /MPhil (Geog) or (MS RS/GIS) + BS (Geog)

Estimated Seats

- BS (Hons.):
 - Intermediate Pre-Engineering 60
 - Intermediate Pre-Medical 30
 - Intermediate Arts 30
- BS (Third Year):
 - Science group 25
 - Arts group 20
- MS (RS /GIS): 30
- MS/Ph.D.: 10

Facilities

- Building (Housed in 21 rooms including lecture rooms)
- GIS Lab, Remote Sensing Lab
- Physical geography lab
- Meteorological Lab.
- Prehistoric Museum
- Seminar Library

Career Opportunities

Geography graduates with Master's degree generally find useful employment in many major fields, *i.e.*, education, environment, administration, and private organizations. Development authorities and agencies throughout the country utilize their specialty and expertise. In particular government departments, *i.e.*, Survey of Pakistan, GSP, Statistical Bureau, Population Census, SUPARCO, Archeological Department, Planning Commission, and provincial departments

of planning and development have employed geographers for their special skills. Private consulting firms, and Non-governmental Organizations (NGOs) also utilize the expertise of geographers.

There are various fields of application in Pakistan where geographer could excel successfully.

Postgraduate Research

Produced: 14 Ph.D. 6 M.Phil.

Current enrollment:

- M.Phil. / Ph.D.(26 students)
- MS (RS/GIS) (115 students)

Publications

- Journal occasionally published by the Department
- Faculty Publications: More than 300 articles published in the journals of international repute.

Faculty

Professors

Dr. Khalida Mahmood (Chairperson)

Dr. Jamil Hassan Kazmi

Dr. Farkhunda Burke

Dr. Azra Parveen Azad

Assistant Professor

Mr. Syed Shahid Ali

Adjunct Professor

Prof. Dr. Qazi Shakil Ahmed

Cooperative Teachers

Prof. Dr. Birjis Talat

Prof. Abdul Rauf Khan

Prof. Dr. Ahsanullah

Mr. Syed Asif Ali

Mrs. Shakila A. Rehman

Dr. Mudassir H. Arsalan

Further Enquiries

Tel: +92 (0)21 9926 1300-06 Ext: 2292

URL: kugeography.com

Department of GEOLOGY

The Department of Geology, University of Karachi is one of the oldest institutions for teaching of geology in the country which started functioning in 1954. The department has enrolled about 20 research scholars for M. Phil and Ph. D. degrees, 55 graduate and 200 undergraduate students in various classes. The academic staff is comprised of 13 regular teaching staff. There are 05 Professors, 03 Associate Professors, 02 Assistant Professors and 04 Lecturers. In addition to that there are also 03 full time cooperative teachers and 03 adjunct professors.

The department has a spacious building for laboratories which contains many laboratories and classrooms. Among the universities of Pakistan, it has one of the most impressive geology museum. This museum houses a large collection of valuable rock, fossil and mineral specimen. For students of geology these serve as reference geological samples. The Department of Geology has produced a large number of graduates and they hold key positions in national and multinational organizations. They have made significant contributions in their fields of specialization.

Degree Programs Available

- BS (Honours)
- BS
- MS/Ph.D.

Admission Requirements

- BS (Hons.): Intermediate Science (Pre-Medical / Pre-Engineering)
- BS (Third Year): B.Sc. with Geology

Estimated Seats

BS (Hons.):	75
BS (Third Year):	15

Career Prospects

BS Degree holders of geology from this university can choose careers as petroleum geologist, engineering geologist, marine geologist, geochemist geophysicist, environmental geologist. In all national and multinational oil companies, a large number of petroleum geologists from Karachi University are engaged in exploration activity.

Engineering geologist are required to investigate the foundations for all large civil engineering projects such as dams, motorways, power plants and high rise buildings. Engineering companies and government agencies employ engineering geologist and hydrogeologists for developing groundwater resources,

resolving environmental issues and for assisting in better planning.

Courses in oceanography and marine geology are offered to prepare our graduates to explore ocean resources. They have a career in oceanographic institutes, coastal development authorities and offshore oil exploration companies.

Geophysics and geochemistry are interdisciplinary sciences. Principles of physics and chemistry are applied in understanding the constitution and the dynamics of the earth. These subjects are for monitoring of environmental problems and essential tools in oil and mineral exploration.

Facilities

The Department has a wide range of Technical and laboratory facilities. There are well equipped research/teaching laboratories geochemistry, petrology and engineering geology. Department also houses a seminar and a reference library with small but up-to date collection of books and journals. It is the only department in the country that offers courses in marine geology.

Lab facilities available for higher students and research:

- Geochemistry

- Engineering Geology
- Sedimentology
- Marine Geology
- Petrology

Extra-curricular Activities: For healthy and creative activities of students department organize various events. Faculty member as a student advisor coordinates regularly with student affair department of Karachi University in this regards. Student advisor in the department helps student in academic matters, career counseling, sports activities and to facilitate student's individual matters.

Study visits cum recreation programs in different parts of Karachi are permanent activities of this department. During

students week students are given all opportunities to express their imaginative, creative and artistic potentials. Pakistan tour is also an important event where students get the chance to observe and understand the different cultures of Pakistan and its scenic places.

Faculty Members

Professors

Dr. M. Niamatullah (Chairman)
 Mr. Shamim A. Sheikh
 Dr. Viqar Husain
 Dr. Shahid Naseem
 Dr. Ather Ali Khan

Associate Professors

Mr. Gulraiz Hamid
 Mr. Nadeem A. Khan

Mr. Mujeeb Ahmed
 Mr. Muhammad Bilal
 Ms. Erum Bashir

Lecturers

Ms. Tayyaba Shaheen
 Ms. Sadaf Naseem
 Mr. Adnan Khan
 Ms. Salma Rafi

Further Inquiries

99261300-6 Ext. 2295

Department of **HEALTH & PHYSICAL** **EDUCATION**

Introduction

Physical Education is a way of education by means of physical movement. From Molecular Biology to Material Sciences nothing of value can be expected from a society if the teaching and research in Health and physical education is ignored or if it is relegated to a secondary status. Being a natural phenomenon, movement is the essence of life and the entire mechanism of human body is geared to it. Experts believe that exercise is also as important as food. While food provides necessary energy for the body, exercise tones up the human organism so that it can utilize this energy in a better way. Since a healthy body is necessary for a healthy mind, physical education as a discipline is more intimately concerned with human development than educational disciplines.

Physical fitness is not only a concept but it reflects a practical approach to human betterment in terms of health. The survival of a nation is undoubtedly dependent on physical fitness which ensures general proficiency in all walks of life, and is inevitably linked with better economic growth. It is needless to

emphasize the importance of physical education as a discipline as it already stands recognized at the university level. All the advanced countries, realizing its virtues and benefits, have included this subject as an essential part of curriculum at all levels of education.

The Department has been working strenuously towards a program of teaching and research to meet the needs of the country in Physical Education & Sports Sciences.

Degree Program Available

- M.Sc.

Estimated Seats: 50

Admission Requirements

- i) Bachelor in Physical Education
- ii) B.A. / B.Sc. (with Physical Education as a subject)
- iii) M.B.BS/ B.A.(Pass), /B.Sc. (Pass), B.Sc. (Physiotherapy / Medical Technology / O.T / Nursing)
- iv) B.Com. (Participation in any game at College, City, Province or National level)
- v) B.E. BBA, BPA, L.L.B. and participation in any game at College, City, Province or National level.

Facilities

- Gymnasium Hall for multipurpose activities e.g. Basket Ball, Badminton, Table Tennis, other indoors games

- Football field Hockey fields
- Athletic track
- Badminton court
- Tennis Courts
- Squash Courts
- Volleyball, shooting ball Courts.
- Cricket ground with stadium
- Gymnastics and weight lifting facilities

Teaching and Assessment

The teaching and assessment is done under the Semester System as per Karachi University rules.

Career Opportunities

The post graduates having a degree of Health and Physical education will be able to play a significant role in the national development through their services rendered to educational institutions and sports organizations.

Faculty Members

Lecturers

Mr. Basit Ansari (Incharge)
Mrs. Shazia Farid
Mr. Mazahir Zia Shaikh
Ms. Amna Mukhtar

Visiting Faculty

Prof. Dr. Masood Anwer Qureshi
Mr. Rashid Qureshi.

Further information

Telephone:99261300-06 Ext:2263
Email: hps@uok.edu.pk

Department of **MATHEMATICS**

Introduction

Department of Mathematics was established in 1956. Professor Dr Suleman Kerawala was the Founder Chairman. Professor Dr SM Yahya introduced course reform. In addition to the core programs, given below, our department caters to the subsidiary courses in mathematics offered in BS Program. Our department, also, renders services of its full-time faculty to teach mathematics courses in other programs and departments as well as government organizations.

Aims and Objectives

- a) To inculcate habits of creative thinking, critical analysis and rigorousness, so that he students start enjoying mathematics
- b) To make the student appreciate the uniqueness of mathematics as tool of the tools, having the power of generalization and the power of application
- c) To develop ability in students to formulate a problem using the language of mathematics
- d) To equip students with the tools required and the mathematical

techniques applied in the industrial, the business, the financial and the health-care organizations

- e) To propose mathematical solutions to indigenous problems arising in the industrial, the business, the financial and the health-care sectors
- f) To strengthen academia-professional-world bonding by tailoring the courses and the trainings offered according to needs of the end-user

Degree/Diploma/Certificate Programs Available

- a) D.Sc.
- b) Ph.D.
- c) MS
- d) BS (Hons.)
- e) BS (Pure Mathematics)
- f) BS (Applied Mathematics)
- g) Diploma in Mathematics
- h) Certificate in Mathematics

Estimated Seats

- BS (Hons.): 140
- BS (Third Year): 150

Admission Requirements

- BS (Hons.): Intermediate Science/ Arts (with Mathematics/ Certificate in Mathematics, DBA with Mathematics)
- BS: BA/B.Sc. (with Mathematics/ Diploma in Mathematics)

Career Opportunities

Students graduating from this department have been, gainfully employed in various R&D organizations, *e.g.*, SUPARCO, as well as financial and educational sectors.

Research Activities

Faculty is engaged in research in the following areas:

- 3-D Optical Imaging
- Algebra
- Astrodynamics
- Biomathematics & Bioinformatics
- Climatology
- Pedagogical Techniques in Maths
- Controls and Simulation
- Fluid Dynamics
- Mathematical Physics
- Operational Research
- Quantum Mechanics
- Relativity and Gravitation

Faculty Members

Professors

Dr Rana Khalid Naeem (Chairman)
Dr Nasiruddin Khan
Dr Syed Arif Kamal
Dr Sarwar Jahan Abbasi
Dr Syed Anwar Ali Zaidi

Assistant Professors

Ms. Rehana Shakeel
Ms. Naveeda Qamar

Ms. Akhtar Jehan Aziz
Dr. Muhammad Shahid Qureshi
(on deputation to ISPA)
Mr. Mushtaq Ahmed
Dr. Muhammad Jawed Iqbal
Mr. Muhammad Javed Ansari
Mr. Waseem Ahmed Khan
Ms. Syeda Sadia Zia

Lecturers

Mr. Waseem Ahmad Ansari
Mr. Khurram Kamran (on study leave)
Ms. Saba Naz
Mr. Muhammad Imtiaz
Mr. Syed Inayatullah
Mr. Najeeb Alam Khan
Mr. Tanveer Ahmed Siddiqi
Mr. Asif Raza Khan

Further Enquiries

Telephone: 021 9926 1300-6 ext. 2293

Website:

www.uok.edu.pk/faculties/mathematics/index.php

Department of MICROBIOLOGY

Introduction

Microbiology is a broad discipline which has both basic and applied aspects. Many microbiologists are interested primarily in the biology of the microorganisms whereas other may be interested in particular functional processes. Some microbiologists may have an applied orientation and would be interested in practical problems in the fields of medical, food, dairy and public health Microbiology. Therefore, microbiologists must have good understanding about microbial taxonomy, genetics, immunology and physiology in order to identify these agents, utilize their metabolic potential on commercial levels and to manipulate these organisms for the betterment of humanity.

History

The Department of Microbiology at the University of Karachi was established in 1957 with only 22 students and one full-time teacher (late Prof. Dr. A.A.Anwar) and a part time teacher cum student (Late Prof. Dr. Pirzada Misbahuddin Ahmed Siddiqui) in the old University building located in a central place of the city Karachi. Prof. Dr. Ahmed Ali Anwer was

the founder chairman. Since this was the first and only Department of Microbiology for many years, in this country, offering a degree, Prof. Dr. Anwer could be truly regarded as the Father of Microbiology in Pakistan.

Later, the department moved to the present building in 1972. Presently, there are thirty three faculty members. More than half of the teachers hold Ph.D. degrees from acclaimed Universities of UK, USA, Canada, Russia and Pakistan. At present, four teachers are abroad, on study leave, to pursue a Ph.D. eight faculty members and few of them together with the normal teaching assignments are carrying out their research leading to Ph.D. locally. Some of our faculty members have post doctoral research experience and most of the faculty members regularly present their research in National and International Conferences/ Workshops/ Symposia and Seminars. Most of the teachers are conducting research on various aspects of Microbiology and allied fields of biology by obtaining grants from National and International funding agencies.

Because of the importance of the subject and its applicability this department is now regarded as one of the best

departments within the faculty of Science. As a result this department has become popular and the number of student, opting to study Microbiology as their major, has increased to more than 400. Furthermore, this department is catering the needs of those who opt to study Microbiology as one of their minors.

Besides offering BS/B.Sc and M.Sc. degrees this department has a reputation of its MS/M.Phil and Ph. D. program. At present, about 100 scholars are enrolled in M.Phil/Ph.d & Ph.D programs.

Degrees offered

- BS (Hons.)
- BS
- MS
- Ph.D.

Admission Requirements & Estimated Seats

- BS (Hons.): Intermediate (with Biology) 90 Seats
- BS (Third Year):
 - i) B.Sc. with Microbiology 45 Seats
 - ii) B.Sc. Medical Technology with Microbiology/ Bachelor of Veterinary Science / Veterinary Medicine 03 Seats

Faculty Members

Professors

Syed Muhammad Khalid (Chairman)
Dr. Shahana Urooj Kazmi (Dean Faculty of Science)
Dr. Nusrat Jamil
Dr. Aqeel Ahmad
Dr. Tasneem Adam Ali
Dr. Shakeel Ahmed Khan
Dr. Fasihuddin Ahmed Ansari (on FSL)
Dr. Rakhshnada Baqai

Associate Professors

Shahnaz Mansoor
Nayyar Jahan (on study leave)
Talat Yasmeen Mujahid (on SL)
Dr. Asma Naeem

Assistant Professors

Nayyar Mehmood (on SL)
Dr. Samia Ahmed
Tanveer Abbas (on SL)
Syed Abdus Subhan (on SL)
Dr. Fauzia Haider
Dr. Abdul Wahab

Dr. Zaid Ahmed Prizada
Dr. Asma Saeed

Lecturers

Yasmeen Ghani (on FSL)
Anjum Zehra (on SL)
Tariq Tayyab
Munira Naz Balouch (on SL)
Muhammad Sohail
Sadaf Jahangir
Adnan Khan

Adjunct Professors

Dr. Hajra Khatoon
Dr. Roquya Siddiqi
Dr. Sheikh Ajaz Rasool

Cooperative Teachers

Sana Rashid
Anila Shahzad
Lala-Rukh
Nazish Anwar
Uzma Temuri
Zareen Qamar

Some Research Interests of the Teaching Faculty

1. Studies on the mechanisms of virulence
2. Epidemiological studies
3. Studies on microbial enzymes of industrial importance
4. Biotransformation studies
5. Studies on bioactivities of microbial metabolites
6. Immunological aspects of diagnosis
7. Molecular aspects of disease diagnosis and microbe identification
8. Bacteriocins
9. Bioactivities of natural products
10. Molecular biology of phages.

Further Enquiries

Phone (021)99261300-7 Ext.2248/ 2411

Department of **PETROLEUM TECHNOLOGY**

Introduction

In the mid 1990's Karachi University envisaged the need of the job oriented studies and established Petroleum Technology Department. Its syllabi were compiled by the joint efforts of the Oil & Gas industry and the academia. The vision was to bring forward a generation taught and developed by the Professors of the University and the scholars of the Petroleum Industry. These students are capable to take over needs of the industry.

Petroleum Technology program is successfully running in the Faculty of Engineering/Science along with Petroleum Industry scholars who are participating in the guidance towards the state of the art direction and teaching. The M.Sc. program covers the subjects of Exploration, Drilling, Well Completion, Production, Reservoir, Natural Gas Engineering, Refining, Economics, Environment & Safety, Logistics and Industrial Management. The program is such designed to include all aspect of Oil & Gas Industry so that student could adjust to different aspects/places in the industry.

Eligibility & Estimated Seats:

- B. Sc. (Pass) 20 seats
- B.E. 15 seats
- B.Tech. 05 seats

Facilities

Internships can be provided to the students of M.Sc. final year. Department has arranged field visits in the petroleum industry.

Teaching and Assessment

It is a two-year (4-semester) program of 20 courses of 3 credit hours each. The program includes theory classes six days a week as well as practical, seminars and a six-week internship.

An intensive study of chemistry and geology of petroleum, drilling, well logging, reservoir, production, refining, pipeline, corrosion and environmental issues is required by the students. This program is mainly for fresh science and engineering graduates who plan to enter petroleum industry or have recently joined.

Career Opportunities

Petroleum Technology program of University of Karachi was initiated in 1996 following the policy of introducing job-oriented technology programs at the University. The program aims to meet the

future requirements of technical and professional personnel in view of growing participation of national and multinational companies and a prospect of enhanced petroleum exploration and refining activities in Pakistan.

Pakistan has an expanding oil industry with accelerated exploration activities, refineries, petrochemical industries, and oil and gas distribution network. There is a job market at home, in the Middle East and in other parts of the world.

Faculty Member

Prof. Dr. Majeedullah Quadri, Chairman

Engr. Zahid Nabi

Engr. Syed Hassan Abbas

Mr. Kashif Sadiq

Mr. Waqas Ahmed

Visiting Faculty Members

A large number of Industrial personals are teaching in our Department as Part-Time faculty members i.e. PPL, OGDCL, NRL, HDIP, BP Pakistan and various Departments of University of Karachi i.e. Chemical Technology/Engineering, BBA, Statistics, Mathematics, Geology, etc.

Further Enquiries

Telephone : 99261300-6 Ext. 2418

Website: www.uok.edu.pk

Email: pet@pet.ku.edu.pk

majeegeol_pk@yahoo.com

Department of **PHYSICS**

Introduction

The department of Physics was established in 1952, and is one of the leading departments in Science and technology in the country. Prof. Dr. Mujtaba Kareem was the founder chairman. Since its establishment, the department has been running different degree programs on several advanced level subjects. The department also offers specialization in Materials Science, Electronics, Optoelectronics, Electronics and Communications, Nuclear Physics, Solid State Physics, Spectroscopy & Space Physics. The degree offered by the department has reputations and values in different circles of the country and abroad.

Degree Programs Available

- BS (Hons.)
- BS
- M.S/ Ph.D.

Admission Requirements / Estimated Seats

- BS (Hons.):
Intermediate (with Physics and Mathematics) 75 Seats
- DAE (electronics, Mechanical, Electrical, Radio, T.V. 06 Seats

- BS (Third Year): B.Sc. with Mathematics & Physics) 50 Seats

Facilities

- a) Audio/ Visual Systems
- b) Internet
- c) Workshop
- d) 40 KV Generator
- e) Research Labs
 - Electronics and Communication
 - Solid State Physics
 - Material Science and Optoelectronics
 - Condensed Matter
 - Atomic and Molecular Spectroscopy
- **Seminar Library** with more than 5000 books and scientific journals on different fields of specialization in Physics. The library record is available on computer/network.
- **Well-equipped Audio-Visual Room**
- **Teaching Labs** are well equipped with experiments on mechanics, optics, modern physics, semiconductor electronics, optoelectronics, networking and optical fiber etc.
- **Computer Lab:** Latest versions of computers are available for software developments, computing, simulation and modeling, automation etc in the computer laboratory.

Medals and Scholarships

- a) Philips gold medal for First position in BS (Physics)

- b) Orient Dr. Abdul Qadeer Khan Science Award gold medal for First position in BS (Physics)
- c) Ameer Hussain Siddiqui Trust Scholarship for meritorious students

Carrier Opportunities

Jobs in industrial and academic institutes of the country and abroad.

Faculty Members

Professors

Dr. Dabir H. Rizvi (Chairman)
Dr. Naquiba Bano
Dr. Altaf Hussain
Mr. Naseer Uddin
Dr. Birjees N. Ayub
Dr. Tehsen Rahim
Dr. Zaheer Uddin
Ms. Shabana Rizvi
Mr. Saifuddin Jillani
Ms. Rabia Najam

Adjunct Faculty

Dr. R.M.M. Naqvi
Dr. A. A. Qidwai
Dr. Firoz Ahmed
Mr. H.G.S. Taqvi

Correspondence

Telephone: 2961300-7 Ext: 2250
Email: com.gmail@kuphysics

Department of **PHYSIOLOGY**

Introduction

Physiology department is an important segment of the Faculty of Science, University of Karachi occupying a very prominent place in the modern age of Biomedical Sciences. This department, founded by Prof. Dr. M. H. Qazi, in 1964, was the first one outside medical colleges to introduce teaching and research programs in Basic and Experimental Physiology at the graduate and postgraduate levels. It has initiated its academic and research program with (3 teaching staff and 8 students) to its present strength of 21 faculty members and 15 supporting staff members and more than 500 students including both the Major and Minors. A number of renowned Professors are the pioneer faculty members of the department and are presently serving on key posts in various organizations including Karachi university. Such as Prof. Dr. M. H. Qazi, Rector Dada Bhai Institute; Prof. Dr. Pirzada Qasim Raza Siddiqui, Vice Chancellor Karachi University; Prof. Dr. Masood Anwar Qureshi, Head Department of Physiology, Dow University of Health Sciences; Prof. Dr. Hilal Ahmed Shaikh, Ex-head of the

Neuromuscular Unit, Department of Physiology, University of Karachi; Prof. Dr. Kalim-ur-Rehman Khan, Head of Physiology Department, Muhammadi Medical College, Mirpurkhas, Sindh and others. Today, this is the only institute in the country which has produced M.Phils. and Ph.Ds. in various disciplines of Physiology over the past many years.

Degree / Diploma / Certificate Programs Available

- BS (Hons)
- BS
- M.S/Ph.D.

Admission Requirements & Estimated Seats

BS (Honours)	100 seats
Intermediate Science with Biology	
BS (Third Year)	35 seat
i) Microbiology	} B.Sc. (Pass) Biology Group with at least 60% marks
ii) Biochemistry	
iii) Zoology	
iv) Botany	
v) Chemistry	
vi) M.B.B.S	
vii) D.V.M	
viii) B.Sc. Physiotherapy	
M.S/Ph.D.: Masters/BS/M.Phil. in the relevant subject	15 seats

Facilities

The department has sufficient facilities necessary to run the academic and research activities such as:

1. Well Equipped Labs for students & researchers.
2. Audio Visual Aids like Over head projectors, teach Camera and television for interactive teaching.
3. A well organized Seminar Library with up to date books on various disciplines of Physiology.
4. Power Labs.
5. Computer facilities are available in all special disciplines for researchers .However, a separate computer lab for academic & research purpose is being established with fiber LAN based networking in the department.

Career Opportunities

The department has been training the students to provide services in academic & research institutions including medical universities, hospitals, diagnostic laboratories, pharmaceutical industry, health related agencies, population welfare divisions, agriculture, livestock, and poultry industry and national research organizations.

Research Activities

The Department has limited but sufficient facilities to undertake research programs

at Masters / BSIV year Levels in various areas of contemporary physiology with special significance to the health related problems of the country in collaboration with other institutions in basic and medical sciences.

The department also running research at M.S, M.Phil & Ph.D levels in different disciplines of Physiology such as Neuromuscular Physiology, Pathophysiology, Hematology, Molecular Physiology & Biophysics, Molecular & clinical Endocrinology, Clinical Endocrinology and Poultry Physiology (in

collaboration with SPVC under the guidance of Dr. Shafqat Fatima Rehmani, Excellent Director, SPVC Korangi, Karachi). The department has produced numerous Ph.Ds, M.Phil. and number of Masters in Physiology. Presently, more than 25 research scholars are registered in their M.S, M.Phil/Ph.D. programs.

Publications

More than 400 research papers have been published by faculty members & research students in journals of national and international repute.

Faculty Members

The Department has experienced and qualified faculty members in various disciplines of physiology and includes 03 professors 02 Adjunct Professors 06 Assistant Professor 11 lecturers 04 cooperative teachers and 03 visiting teachers (from Dow International College, Agha Khan University of Health Sciences, Karachi and Sindh Poultry Vaccination Center, Korangi, Karachi).

Further Enquires

Telephone: 99261300–6 Ext. 2296, 3458
Email: Physio.ku@gmail.com

Department of STATISTICS

Introduction

The Department of Statistics, University of Karachi was established in the year 1963. Both in terms of physical facilities and academic facilities the Department of Statistics is one of the most popular departments within the university.

Programs in Statistics

- BS Hons.
- BS
- BS Actuarial Sciences and Risk Management
- M.Sc. Applied Statistics
- MS / Ph.D.
- Post-Graduate Diploma in Statistics

Admission Requirements & Estimated Seats

BS (Hons.): H.S.C. Science/ Arts (with Mathematics) or equivalent 65 seats
BS Actuarial Sciences & Risk Management: H.S.C. Science/Arts (with Mathematics) or equivalent with at least 50% marks 60 seats
BS Third Year in Statistics: B.A./B.Sc. (Pass) (with Mathematics) 50 seats
PGD in Statistics 10 seats
PGD in Statistics: Graduation*

*Graduates who have passed B.A./B.Sc. with Statistics optional are not eligible

Facilities

The department has a Seminar Library stocked with a number of latest and good books on all branches of statistics. The Library has also a large collection of statistical publications of national and international organizations. The students and researchers are also using the facilities of data bank in the department that has several computer laboratories having more than 100 computers.

Well equipped Computer Laboratories with an environment of networking and statistical packages such as SAS, SPSS, R, etc are available for students and researchers.

Teaching and Assessments

Teaching and assessment is according to the requirement of the respective program as per University rules and regulations.

Career Opportunities

The opportunities are open for the Students of Statistics and Actuarial Sciences and Risk Management in all fields including banks, industries, Government Organization (FBS, SBS, PBS, State Bank, etc.), Research Organizations, insurance and investment fields

Research Activities

- MS/Ph.D. program

Publications

Over hundred research papers of the faculty members are available on various National and International journals.

Faculty Members

Professors

Syed Afrozuddin Ahmed (Chairman)
Dr. Junaid Sagheer Siddiqi
Mr. Ghulam Hussain
Professor Anwer Khurshid (FSL)
Dr. Mudassir Uddin

Associate Professors

Mr. Muhammad Aslam
Dr. Ehtesham Hussain

Assistant Professors

Ms. Farah Yasmin (SL)
Ms. Rafia Shafi

Lecturers

Dr. Javed Iqbal
Ms. Suboohi Safdar
Ms. Arfa Maqsood
Ms. Bushra Shamshad
Ms. Sara Azhar

Adjunct Professor

Mr. Zahid Mahmood
Mr. Asim Jamal Siddiqui

Part-time Faculty

Dr. Ejaz Ahmed

Further Enquiries

Phone: 99261300-6, Ext: 2298
E-mail: safahmed@uok.edu.pk

Department of **ZOOLOGY**

Introduction

The department of Zoology was established in 1951 and now it holds a pivotal position in the faculty and can also be compared with any department of Zoology elsewhere in and outside Pakistan. The Department right from its inception has been imparting instruction at B.Sc., BS, and M.Sc. levels, besides providing facilities for post-graduate research leading to M.Phil, and Ph.D. degrees. To date 92 Ph.D., 61 M.Phil and 4 D.Sc. degrees have been awarded from this department. More than two thousand (2000) research papers have been published by the faculty members in National and International research journals. Various monographs and thirty books have been published by the faculty members.

About 300 students are enrolled each year at various levels in the department including various specializations. Several are being enrolled each year in M.Phil and Ph.D programs.

Degree Programs Available

- BS (Hons.)
- BS
- MS/Ph.D.

Admission requirements

- BS (Hons.): Intermediate Science (Biology Group)
- BS (Third Year): B.Sc. with Zoology
- MS: BS / M.Sc in Zoology
- Ph.D. MS/ M.Phil in Zoology

Estimated Seats

- BS 130
- BS (Third Year) 130
- M.S / Ph.D. 25

Facilities

The department has Computer Lab and instruments Lab of Toxicology and Hydrology containing Atomic Absorption HPLC, Autoclave, GLC, Total counter, Graphite Furnace, Bom colorimeter and Spectrophotometer.

In addition to the instrument Labs, the department has a zoological museum which occupies a special place among the Museums of Pakistan Universities. It has a huge collection of vertebrates and invertebrates from James Murray's collection and substantial collection of fresh water and Marine fauna of Arabian Sea, Persian Gulf and Indian Ocean. During the past 61 years a considerable addition of insects from South-East Area, Pakistan, Bangladesh including Oriental, Trans-Himalayan (Palaeartic) and

Ethiopian forms from Lasbella and Mekran Coast, have been added. Work on taxonomy of fishes (freshwater and marine), Insects and nematodes are being undertaken by trained and experienced staff. Collaboration is being maintained with outstanding taxonomists in Japan, Europe, U.S.A. and Canada.

Teaching Assessment

Semester System

Career Opportunities

The graduates of the department while catering the needs of the education department, where they are readily absorbed as teachers of Zoology in schools, colleges and University also have job opportunities in the department of Agriculture, Plant protection, Fisheries, Zoological Survey, Zoological Gardens Safari parks, Pakistan Council of Scientific and Industrial Research, National Institute of Oceanography, Pakistan Agricultural Research Council, Wild life conservation and management of WWF, IUCN, Public and Private sectors pathological laboratories.

Research Activities

The department also gives opportunity for research to the students, who can specialize in Applied Zoology,

Entomology, Limnology and Freshwater, Fishery Biology, Marine Zoology, Parasitology, and Wildlife Fisheries. More than 80 research projects funded and sponsored by national as well as international agencies were successfully completed by faculty members.

Publications

More than 2000 research papers in journals of national and international repute.

Faculty Members

Professors

Dr. Farida Begum (Chairperson)
Dr. Sohail Barkati
Dr. M. Arshad Azmi
Dr. Nasira Khatoon
Dr. Rehana Yasmeen Farooque
Dr. Syed Anser Rizvi
Dr. Masarrat Yousuf
Dr. Naseem Ghani
Dr. M. Farhanullah Khan
Dr. Seema Tahir

Adjunct Professors

Dr. Tasneem Saqib
Mr. Muhammad Iqbal

Associate Professors

Dr. M.Zaheer Khan
Dr. Kahkashan Akhtar
Mr. Atiqullah Khan (M.Phil)
Dr. Rahila Tabassum
Dr. Rukhsana Perveen

Assistant Professors

Ms. Afshan Jbbar Khan
Dr. Farzana Yousuf
Mr. Karim Gabol
Dr. Muhammad Shoaib
Dr. Solaha Rahman
Dr. Sumera Farooq
Dr. Ghazala Yasmeen

Lecturers

Ms. Shahina Rao
Ms. Samreen Mirza
Ms. Roohi Kanwal
Ms. Shakila Parveen

Cooperative Teachers

Dr. Farida Bano
Ms. Nafisa Shoaib
Mr. Muti-ur-Rehman
Ms. Attia Batool

Further Enquiries

Telephone: 99261300 – 6 Ext. 2299
Website: www.uok.edu.pk/zoology
Email: zoology.ku@hotmail.com

***HEJ Research Institute of
CHEMISTRY
International Center for Chemical
and Biological Sciences***

Introduction

The H.E.J. Research Institute of Chemistry (International Center for Chemical and Biological Sciences) was founded in 1968 by Late Prof. Salimuzzaman Siddiqui, FRS the main objective of the institute was to offer research and instructional opportunities at post graduate levels in the emerging important areas of chemical and biochemical sciences. Right from the beginning, the institute adopted a policy of academic quality continuous growth and improvement. With the conscious decision to center the activities around good scientists rather than on machines, the institute has attracted the brightest young men and women in this fascinating field of science. After the joining of Prof. Atta-ur-Rahman initially as the Co-Director in 1973, the institute rapidly progressed as a genuine Center of excellence, and became widely recognized both home and abroad.

The discipline of Chemistry is growing and changing at an unprecedented rate, and scientists at the H.E.J. Research Institute of Chemistry are trying their best

to remain stay at the forefront in teaching and research of chemical sciences. Professor Atta-ur-Rahman continues to serve the Institute as its Director and manages regular visits to the Institute despite his extremely busy schedule. Prof. Dr. Muhammad Iqbal Choudhary is serving the Institute as the Acting Director.

Degree Available

- MS/Ph.D. in relevant discipline of Chemistry

Admission requirements

Students possessing M.Sc./BS degree in relevant discipline of Chemistry or equivalent will be eligible for enrollment as MS /Ph.D. candidates of chemistry at ICCBS.

Estimated Seats 40

Facilities

The Institute has the single largest doctoral program in the country with over 250 Ph.D. students. The main areas of research and development and training of students include natural product chemistry, protein chemistry, pharmacology, computational medicinal chemistry and plant biotechnology. The analytical, spectroscopic, computational and other facilities present in the institute

are at par to any good Institution in the world. The Institute also has an Industrial Analytical Center which is providing analytical and consultancy services to over 350 industries in Pakistan.

A number of goal oriented projects relating to the chemistry of natural products, protein chemistry, plant biotechnology and pharmacology of herbal medicines are being vigorously pursued which have led to the award of over 300 doctorate degrees, 50 M.Phil. degree and over 200 M.Sc. degrees and the publication of over 2,500 research papers that earned international recognition.

Teaching and Assessment

Courses will be taught by lectures, seminars and tutorials. Assignments for tutorials include essays, data handling exercises, computer based studies and preparation of short talks. Each week there are research seminars, where faculty of visiting scientists explains recent developments in the field of Chemistry. Developing laboratory skills is a key objective of the first year of the degree program. The program involves a mixture of course-work, research studies, delivery of scientific presentations and successful completion of GRE and other institutional requirements.

Career Opportunities

Science the ICCBS is a prime institution of the world, a large number of our students are periodically going abroad on Post-doc assignments. A long number of our students continuously used to get academic position in foreign as well as indigenous Universities of Pakistan. The remaining students who are not interested in academic positions are taken up by

local industries as trained RPD or Production chemists. So far there is not a single instance of any of our students remaining jobless for a longer period of time.

Research Activities

Visit our website:- www.iccs.edu

Faculty Members

Visit our website:- www.iccs.edu

Further Enquiries

Academic Coordination Office
Rom #W-02, H.E.J. Research Institute of
Chemistry, University of Karachi.

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Ph: (+92-21) 4824925, 4824924,
4819010, 4824934, 4824901, 4824930,

Telefax: (+92-21)4819018,4819019

Website: www.ics.edu

Email tanveer.farooqui@iccs.edu

Institute of **ENVIRONMENTAL STUDIES**

Introduction

The subject of environment is multidisciplinary in nature therefore, there was a need to evolve and develop courses at the graduate and post-graduate level, which will involve the elements and fundamental principles of medicine, engineering and science for the solution of environmental problems especially in developing countries like Pakistan. In other words the degrees in Environmental Science will try to solve the problem of acute shortage of man power in the field of environment in the country.

The Institute was established in 1982. This is the oldest and pioneering Institute in the field of Environment which is offering M.Phil. and Ph.D degrees. The Institute started offering M.Sc., Postgraduate Diploma and Certificate courses since 1996 and BS program in 2009. The Institute provides excellent air-conditioned lecture hall, well equipped environmental laboratories, library and audiovisual facilities for the students. It is also recognized as a technical Focal Point on Environmental Health Activities of WHO/EMRO.

Post Graduate Programs

M.Sc.:

Eligibility: B.Sc., B.E., B. Pharm., M.B.B.S, B.Sc. Nursing or any other equivalent degree

Estimated seats: 25

Post Graduate Diploma:

Eligibility: B.Sc., B.E., B. Pharm., M.B.B.S, B.Sc. Nursing or any other related degree.

Estimated seats: 25

Certificate Course:

Eligibility: B.Sc., B.E., B. Pharm., M.B.B.S, B.Sc. Nursing or any other related degree

MS:

Eligibility: M.Sc./ BS/ B. Pharm; Pharm-D/ M.B.BS, BDS, DVM.) or its equivalent in the relevant field

Ph.D:

Eligibility: MS/M.Phil. with CGPA 3.00 or more or its equivalent qualification

Graduate Program

BS:

Eligibility: Intermediate Science or any other equivalent approved by University of Karachi

Estimated Seats 25

Subsidiary courses: Microbiology, Chemistry, Geology, Geography, Botany, Zoology, Mathematics, and Physics

- Admissions to BS (Hons.) and M.Sc. programs are granted on the basis of an aptitude test. Sample test paper and other relevant information is available at www.csku.edu.pk
- Minimum Qualifying marks in the entrance test for BS (Hons.) or M.Sc program is 50% (Fifty percent)
- Merit list of Candidates qualifying in the Entrance Test will be prepared for final selection as per following weightage:
 - Prerequisite Academic Record 60%
 - Entrance Test 40%

Facilities

Environmental Biochemistry and Chemistry Laboratory, Environmental Microbiology Laboratory, Pesticide Detection Laboratory, Bio-analytical Laboratory, Instruments Room, Seminar Library, Experimental Field. The laboratories are equipped with latest and sophisticated equipment.

Career opportunities

After completing two years M.Sc. program and four years BS program the graduates would be able to take up managerial, technical and consultative responsibilities in various industries, multinationals, civic agencies, consulting

firms, public health laboratories and organizations, environmental regulatory bodies, educational and research institutions and environmental protection agencies (EPAs). M.Sc. is the most appropriate and unique post graduate program for the in-service professionals who have the above mentioned qualification and would like to improve their professional skills.

Research activities

Presently research on the following aspects is well underway leading to M.S and Ph.D degrees:

- i) Biodegradation of hazardous waste in extreme environmental conditions
- ii) Kinetic studies on the biodegradation of phenol and phenolic compounds by the soil microorganisms in bioreactor
- iii) Ecology of mangroves ecosystem in relation to the physico-chemical habitat
- iv) Environmental and ecological impact assessment
- v) Impact of commercially available pesticides on laboratory animals and development of histopathological models
- vi) Epidemiological studies on spontaneous abortions caused by prevailing environmental pathogens
- vii) Climate change modeling

Publications

A. Environews: A biannual publication of the Institute.

B. Manuals:

1. Environmental Health and Safety Series: Volume 1. Manual of Occupational Health and Safety.
2. Techniques in Environmental Chemistry 1997) (ISBN# 969-8358-00-5).
3. Methods in Environmental Chemistry. (1996).
4. Manual of Microbiology for Health Professional (1994).

C. Case Studies

1. Tasman Oil spill (2004)
2. Health Care Waste Management (2003)

D. Workshop Proceedings:

1. Global Environmental Conflicts (2008).
2. Workshop on Biosafety, Environmental and Health: A New Frontier, (2007).
3. Anaerobic treatment using UASB. (2005).
4. Sampling Environmental Monitoring (2003).

Faculty Members

Director

Dr. Moazzam Ali Khan

Professor

Dr. Tariq Masood

Associate Professor

Dr. Omm-e-Hany

Lecturers

Miss. Mariya Azeem

Mrs. Suraiya Jabeen

Mr. Waqar Ahmed

HEC Eminent Professor

Prof. Dr. S. Shahid Shaukat

Cooperative Teachers

Professor Dr. M. Altaf Khan

Muhammad Azhar Khan

Atif Shahzad

Sara Umair Siddiqi

Further Enquiries

Tel: +92-21-99261386

Tel:+92-21-9261300-10 Ext-2305

Website:

www.uok.edu.pk/research_institutes/ies

E-mail: sherwanis@hotmail.com.

ies@uok.edu.pk.

Institute of
MARINE SCIENCES

Introduction

Institute of Marine Science (IMS) was established in 1981 to acquire greater knowledge of our marine environment and to develop a multidisciplinary approach to learn all aspects of the marine environment, ecological, biological and geological. Advanced knowledge of sea and skill in various fields of marine science is required for aquaculture, seafood, seaweed, seashells and pearl industry, oil and gas operators and Naval warfare. The Institute of Marine Science, Karachi University is best located for conducting research and teaching leading to MS/Ph.D. degrees. IMS undertakes research in marine science including ecological, biological, biochemical, chemical, geological studies on marine life of Northern Arabian Sea.

Degree Programs Available

- MS/Ph.D.

Admission requirements

M.Sc. or BS in Botany, Zoology, Geology

Estimated Seat: 10

Facilities

Computer and Internet: Institute has computers and Internet facility, which

provide access to Digital library of University of Karachi as well as various scientific data basis. Software packages are also available which enables collection of relevant background literature and statistical analysis of large data sets.

Career Opportunities

- Jobs would be available in:
- Fish processing industries
- Teaching departments, Colleges and Institutes
- Research organizations as: PCSIR labs, Marine Fisheries Departments of Pakistan, Sindh and Baluchistan Fisheries Departments and NIO.
- Middle East and Far East countries where aquaculture and Industries related to marine resources are highly developed

Research Activities

- (1) Ecological studies of crabs from soft sediment shores.
- (2) Small gastropods of sandy shores.
- (3) Lipids in shrimps.
- (4) Penaeid shrimps.
- (5) Polysaccharides in seaweeds.
- (6) Metal pollutants in coastal waters.
- (7) Biodiversity in marine invertebrates and plants.
- (8) Seawater and sediments of Badin, Sindh.

Publications

More than 400 research papers have been published by the faculty members of IMS since its inception.

Faculty Members

Professor

Dr. Meher Fatima

Associate Professor

Dr. Rashida Qari

Further Enquiries

Telephone: 99261300-6 ext. 2378

Email: ims@uok.edu.pk
rqari2002@yahoo.com

Centre of Excellence in MARINE BIOLOGY

Introduction

The is the only institution in Pakistan that offers M.Phil. and Ph.D. programs in marine biology. It was established in the years 1975 under the Centre of Excellence Act of 1974. It is administered by a Board of Governors whose Chairman is the Vice-Chancellor of the University of Karachi. The Director is the executive and academic head of the Centre. The Board of Advance Studies and Research and the Academic Council of the University of Karachi approves the academic programs of the Centre.

Degree Program Available

- MS/Ph.D.

ADMISSION REQUIREMENTS

MS: M.Sc. (preferably 1st class) in Biochemistry, Biotechnology, Botany, Chemistry (with Biology at B.Sc. level), Fisheries & Freshwater Biology, Genetics, Hydro-biology, Marine Science, Microbiology, Physiology and Zoology

Ph.D.: M.Phil./MS degree in Marine Biology

Estimated Seats

MS: 25 with stipend of Rs. 8,000/- p.m.
15 without stipend.

Ph.D.: 10 with stipend of Rs.10,000/ p.m.

Facilities

- 1) Lecture Theatre (Air-conditioned) with audiovisual equipments facilities
- 2) Well equipped laboratories
- 3) Internet facilities.
- 4) Research Library with collection of 5210 books and 1670 research journals of which 400 are local journals and 1270 are foreign. The library has high speed internet facility and a wide range of online journals are available through HEC digital library.
- 5) Shore Lab. At Sandspit about 35 Km away from the University campus. Researchers who visit seaside for collection of marine organisms mainly use the laboratory.
- 6) Museum in which more than 500 specimens of local marine fishes and 200 specimens of marine invertebrates are housed. This museum is mainly used for teaching purpose.
- 7) Aquarium for rearing of live sea animals facilities.
- 8) Transportation for collection sample from seashores.

Teaching and Assessment

The Centre offers a teaching program for M.Phil. students, which comprises ten courses (3 credit hours each), spreading over two semesters.

Career Opportunities

Opportunities for M.Phil. & Ph.D. degree holders are available in different national/international research institution and other departments like: Federal Marine Fisheries Department, Govt. of Pakistan, Sindh & Baluchistan Fisheries Dept., National Institution of Oceanography Department, Institute of marine Sciences, Fishing Industries, Teaching at Government/Public Degree Colleges and Foreign Universities/ Research Institutions.

Research & Publications

The Centre has been publishing international research journal "Journal of Marine Biology" and CEMB News bulletin. Published books, periodicals and more than 450 national / international research publications.

Faculty Members

The Centre is staffed with highly qualified scientists who have experience of working in world-renowned institutions of marine biology and fisheries.

Further Enquiries

Website: www.uok.edu.pk

Email: cembku@yahoo.com &
cembku@gmail.com

Dr. A. Q. Khan Institute of Biotechnology & Genetic Engineering (KIBGE)

Introduction

The new frontiers in biological sciences are entitled with the development of biotechnology and genetic engineering. As the future of scientific success grows from past history and is reflected in the present efforts, one of the reflections is the creation of Dr. A. Q. Khan Institute of Biotechnology and Genetic Engineering (KIBGE), University of Karachi. The institute broadly aims to impart training in modern day biological sciences, biotechnology and genetic engineering with the goal of using modern technology to improve the economic well being of the citizens of Pakistan by means of technological innovations in health, industrial and agriculture sectors. The Institute strives to become an educational institution of international standing entrusted with the responsibility of conducting basic and applied research and imparting education in modern biotechnology and genetic engineering.

The University of Karachi allocated 25 acres of land for the creation of the KIBGE and the building of the institute has a covered area of approximately 100,000 square feet.

The complex consists of four main blocks, including classrooms, laboratories, administration, auditorium and a well established library. In addition there is a mosque, cafeteria and residential facilities for faculty, scientific staff and students.

Service Mission

- To create, develop, promote and provide facilities for advanced studies and research in various dimensions of biotechnology including molecular biology; molecular and medical genetics; plant, marine and industrial biotechnology.
- To organize and propagate national and international seminars, symposia, courses, workshops and scientific gatherings in the area of modern biological sciences.
- To provide hands-on training for already engaged scientific personnel in research on various disciplines of biotechnology and genetic engineering.
- To establish academic links with reputable national and international institutes and centers dealing with the modern day biological techniques and advancements.
- To facilitate the academia-industry relationship especially in the area of commercialization of the

biotechnological processes and products.

Degree Programs Available

- M S (Leading to Ph.D.)
- Ph. D.

Admission Requirements

MS (Leading to Ph.D.): Master / BS or equivalent degree in biological sciences
Ph.D.: M. S. or M. Sc., (Hons.) or M. Phil in Biological Sciences

Estimated Seats

M. S. (Leading to Ph. D.)/Ph. D. 10

Facilities

The institute has state-of-the-art laboratory facilities in the field of biotechnology, molecular biology, genetics and genetic engineering. The laboratory equipments are comparable with any of the top ranking universities or laboratories of technologically advanced countries. The infrastructure has been developed according to the needs and requirements of modern day sciences and technologies. The experimental and practical facilities can be easily exploited to work from genomics to proteomics in the above mentioned research areas.

Teaching and Assessment

The faculty and scientific staff at KIBGE consist of a pool of distinguished teachers and scholars, known for their learning and

research contribution both from Pakistan and abroad. The courses offered by the Institute are similar to those taught at the top ranking universities and institutes of the world. Eminent foreign scholars are also invited to take-up teaching and research assignments at the Institute. Renowned researchers from Pakistan and overseas are also involved in conducting quality research at the institute that will develop highly trained scientific personnel, on one hand, and top quality result-oriented research, on the other.

Career Opportunities

Biotechnology and Genetic Engineering has a wide variety of career opportunities ranging from sales and marketing, to research and development, to manufacturing and quality control and assurance with biotechnology industry flourishing worldwide, not only are the total number of biotechnology companies increasing, but employment in the biotechnology field continues to grow as well. Within each area of the biotechnology industry are several different job functions and often a career path. Biotechnology industry segments include agriculture & food sciences, bioinformatics, biomedical/human diagnosis, forensic DNA analyses, energy, industrial, environmental, marine, biotechnology, pharmaceuticals, etc.

Research & Publications

For the last several years, the KIBGE has been actively involved in execution of various research projects in the fields of agriculture, industrial and medical biotechnology. These research projects have been funded by various agencies including PSF, HEC, PMRC, etc. The faculty members and researchers of the institute have got several novel gene sequences as well as protein sequences identified and deposited in gene and protein sequence data banks. Tens of original articles have been published from faculty members and scientific staff of the institute in various research periodicals of national and international repute. The institute has also signed a couple of MoUs with diagnostic and enzyme industries.

Faculty Members/Scientific Staff

Director General

Prof. Dr. Syed Irtifaq Ali

Co-Director General

Prof. Dr. Abid Azhar

Associate Professor

Dr. Shah Ali Ul Qader

Assistant Professors

Mr. Haider Abbas

Dr. S. M. Shahid

Dr. Saddia Galani

Dr. Afsheen Aman

SSO / Lecturers

Mr. Muhammad Hussain

Ms. Syeda Qamar Un Nisa

Ms. Sitwat Zehra

Dr. Naghma Naz

Visiting/Adjunct Faculty

Prof. Dr. Aqeel Ahmed (*Department of Microbiology*)

Prof. Dr. Beena Naqvi (*PCSIR Laboratories, Karachi*)

Dr. Fauad Masood Qureshi (*Department of Genetics*)

Prof. Dr. Javed Qureshi (*Foreign Faculty*)

Prof. Dr. M. Ataur Rahman (*Adjunct Professor*)

Prof. Dr. Masood Qureshi (*Dow University of Health Sciences*)

Prof. Dr. Muhammad Ishaq (*Sir Syed College of Medical Sciences, Karachi*)

Prof. Dr. Nikhat A. Siddiqui (*Department of Biochemistry*)

Prof. Dr. Obaid Yousuf Khan (*Department of Genetics*)

Prof. Dr. S. H. Mujtaba Naqvi (*Former DG, KIBGE*)

Prof. Dr. Shamshad Zarina (*National Center for Proteomics*)

Prof. Dr. Zabta Khan Shinwari (*Quaid-e-Azam University, Islamabad*)

Further Enquiries

Tel: 021-99261180-2

Fax: 021-34823886-7

Email: kibge.ku@gmail.com

Dr. Panjwani Center for
MOLECULAR MEDICINE &
DRUG RESEARCH
International Center for Chemical and
Biological Sciences

Introduction

The Punjwani Center for Molecular Medicine and Drug Research (PCMD) is founded through a generous support and patronage of Ms Nadira Panjwani in the memory of her beloved father, Dr. Muhammad Hussain Panjwani, a leading scholar and philanthropist. The PCMD will initiate scientific programs that lead to possible treatments of often neglected prevalent diseases of Pakistan, as well as associated human resource development.

Degree Available

- MS/Ph.D.

Admission requirements

M.Sc./BS in Bio Chemistry / Genetics / Microbiology M.B.B.S and B.Pharm. / Pharm-D.

Estimated Seats 40

Facilities

Well-equipped labs for:

1. Tissue Engineering and Stem Cell Research

2. Cancer Diagnosis and Cancer Cell Line Laboratory
3. Tropical Disease Research
4. Infectious Agent and Diseases
5. Degenerative Diseases
6. Proteomics and Enzymology
7. Molecular Epidemiology
8. Genomics, Bioinformatics and Computational Biology
9. Human Genetics and Gene Therapy
10. Molecular Pharmacology and Drug Resistance
11. Clinical Pharmacology
12. Prenatal Diagnosis
13. Drug Discovery, Design and Synthetic Medicinal Chemistry.
14. Diagnostic and Clinical Research Facility
15. Imaging Facility
16. Compound Bank Facility

Teaching and Assessment

- Lectures, seminars and tutorials assignments including essay, data handling exercises computer based studies and preparation of short talks.
- Research seminar, by faculty and visiting scientists.

Career Opportunities

The center will train highly qualified manpower in the emerging new fields of molecular medicine and drug development.

Research Activities

Visit our website:- www.iccs.edu

Publications

Visit our website:- www.iccs.edu

Faculty Members

Visit our website:- www.iccs.edu

Further Enquiries

Academic Coordination Office
Rom #P-015, Dr. Panjwani Center for
Molecular Medicine and Drug Research
University of Karachi.

Telephone: UAN: 111-222-292, Ext #315
Ph: (+92-21) 4824925, 4824924, 4819010, 4824934, 4824901, 4824930,
Telefax: (+92-21)4819018, 4819019
Website: www.iccs.edu
Email: tanveer.farooqui@iccs.edu

National Nematological Research Centre

Introduction

Nematology is one of the most dynamic, exciting and relatively a new discipline in the agricultural sciences. Nematodes are the most abundant and diversified group in the animal kingdom and inhabit virtually every environment. Agricultural crops suffer heavy damage due to nematodes which are hidden enemies of crops and represent a unique challenge to agricultural research.

National Nematological Research Centre (NNRC) came into existence in 1974 under the PARC project PL-480. NNRC became the part of Karachi University in 1987, with the objectives to pursue research, education and extension activities related to Nematology. NNRC has played an important role to impart training to M.Sc., M.Phil./Ph.D. students of many departments like Bio-chemistry, Botany, Microbiology, Genetics and Zoology. NNRC is now by far the largest leading and the best-equipped research centre in Pakistan and has been recognized as "Centre of Excellence" by the Food and Agriculture Organization (FAO) in 1992. NNRC has established cooperative relations with institutions of research in Pakistan and abroad.

Degree/Certificate programs available

- M. S. (leading to Ph. D.)
- Ph. D.
- Training certificate programs

Admission requirements

MS: Sixteen years of education in biological sciences.

Ph.D.: Eighteen years of education in biological sciences.

Estimated seats

- MS: 10
- Ph.D.: 10

Facilities

- Well-equipped modern laboratories.
- Library having a collection of about 700 books, journals and periodic.
- Over 15,000 permanent identified slides and vials of wet suspension of nematodes
- Experimental field and green houses for research purposes
- Diagnostic, advisory and consultancy services to scientists, farmers and extension workers

Teaching and assessment

Teaching and assessment is done as per the semester rules of the University.

Career opportunities

Research and teaching jobs in agriculture related organizations / universities / institutions like PARC, Plant Protection,

Quarantine, Seed Certification, Pesticide and Formulations, Herbal and Food Industries.

Research activities

- Several research projects funded by FAO, WWF, IFS, HEC, PSF & KU have been completed and are still going on
- A large numbers of conferences, workshops and training courses have also been organized
- So far 7 Ph.D. degrees have been awarded and at present 10 students are doing research work for their M. Phil / Ph.D. degrees

Publications

- Pakistan Journal of Nematology (PJM)
- PSN newsletter
- 25 books, booklets, manuals, proceedings
- Approximately 1000 research articles

Faculty members

Professor

Dr. Shahina Fayyaz (Director)

Senior Scientific Officers

Dr. Nasira Kazi (SSO)

Dr. Zarina Begum (SSO)

Further inquiries

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Fax: 92-021-99261387

E-mail: shahinaku@yahoo.com

Institute of
SPACE & PLANETARY
ASTROPHYSICS

Introduction

The Institute of Space & Planetary Astrophysics, University of Karachi, was established in 1994/95. This is the first institute in Pakistan that offers post-graduate programs in the fields of Space Science, Astronomy and Astrophysics.

The institute offered MPhil and PhD program in Geospace Science, Astrophysics and Space & Planetary Astrophysics. The first batch was inducted in 1999. Till today the University of Karachi has awarded three PhDs and eight MPhil degrees to students of the Institute.

Degree Programs Available

- BS
- M.Sc.
- MS
- Ph.D.

Admission Requirements

BS: H.S.C. or equivalent with Mathematics

M.Sc.: B.Sc. or equivalent with Mathematics and Physics

MS/Ph.D.:

M.Sc./BS in Mathematics/ Physics/ Applied Physics.

M.Sc./BS in Geography/ Geology/ Computer Science (with Mathematics and Physics equivalent to B.Sc.)

Estimated Seats

BS: 25

M.Sc.: 25

MS / Ph.D.: 10

Facilities

Apart from an Astronomical Observatory the Institute has two computer labs. The Observatory is equipped with a 6 inch Code' Refractor telescope of German make with excellent photographic facilities. The computer labs are equipped with ten latest P4 computers loaded with licensed software for computational methods, astronomical and mathematical software.

Faculty Members

Dr. Shahid Qureshi (Incharge)

Currently the Faculty includes one Full Time Faculty member and four Part Time visiting Faculty holding PhD degrees. To start an M.Sc. or a BS program the Institute may hire more faculty with at least an M.Phil. degree.

Research & Publications

During the past five years the Faculty and students of the Institute have published scores of research articles in local and international journals.

Further Enquiries

Telephone: 021-9926131 Ext 2443,
021-8205580.

Email: kuispa@yahoo.com

Institute of **SUSTAINABLE HALOPHYTE** **UTILIZATION**

Introduction

ISHU was established with funding from HEC to work on various aspects of naturally occurring salt tolerant plants or halophytes. The aim is to serve humanity by utilizing these plants as a source of fodder, forage, biofuel, oil seeds, medicinal plants etc. in harmony with nature.

Degree Programs available

- MS and PhD in Botany (ISHU)

Admission requirements

For MS - MSc / BS

For PhD - MPhil / MS

Estimated Seats

MS	10
Ph.D.	10

Facilities

ISHU has state of the art facilities for research in lab, green house and natural field conditions such as Atomic absorption spectrometer, CNS analyzer, GC, Ion Chromatograph, Gel Doc system, PCRs, Photosynthesis and water relations instruments etc.

Teaching and Assessment

MS/PhD classes at ISHU started in March 2008 and the first batch is due to complete course work by December 2009.

Assessment and grading system follows that of BASR, University of Karachi MS/PhD program.

Career Opportunities

ISHU graduates can apply for teaching positions at college & university levels, in research and development organizations related to plant sciences.

Research Activities

A number of lab and field research projects have been completed while others are in progress at ISHU covering many aspects from ecology and physiology to molecular biology.

Publications

1. Khan, M.A., R. Ansari, H. Ali, B. Gul and B.L. Nielsen. **2009.** *Panicum turgidum*, a potentially sustainable cattle feed alternative to maize for saline areas. *Agriculture, Ecosystems and Environment* 129: 542-546. Highlighted as a Science Editors' Choice: Controlling Salt Intake (Jan. 2, 2009 **Science issue**) 323: 17.
2. Li, W., P. An, X. Liu, M.A. Khan and K. Tanaka. 2008. The effect of light, temperature and bracteoles on germination of polymorphic seeds of *Atriplex centralasiatica* Iljin under saline conditions. *Seed Science & Technology* 36: 325-338.
3. Gulzar, S., M. A. Khan and X. Liu. 2007. Seed germination strategies of

Desmostachya bipinnata: a fodder crop for saline soils. *Rangeland Ecology and Management* 60: 401-407.

4. Weber, D. J., R. Ansari, B. Gul, and M. A. Khan. 2006. Potential of halophytes as source of edible oil. *Journal of Arid Environment* 68: 315-321. UK
5. Khan, M.A., M.Z., Ahmed, and A. Hameed. 2006. Effect of sea salt and *L-ascorbic* acid on the seed germination of halophytes. *Journal of Arid Environment* 65: 535 - 540. UK.
6. Aziz, I. and M.A. Khan. 2001.. Effect of seawater on the growth, ion content and water potential of *Rhizophora mucronata* Lam. *Journal of Plant Research* 114: 369-374.

Faculty Members

Professor

Dr. M. Ajmal Khan, *Director*

HEC Professor

Dr. Raziuddin Ansari

Associate Professor

Dr. Bilquees Gul

Assistant Professors

Dr. Salman Gulzar

Dr. Irfan Aziz

Further Enquiries

Telephone: (021) 32044350

(021) 99261317 ext. 3333

Website: www.halophyte.org

Email: halophyte@uok.edu.pk

Appendix - A

Faculty of Arts

S.No.	Department	Class	No. of Seats	Required eligibility
01.	Arabic	BS	50	Intermediate or equivalent
02.	Bengali	BS	20	i) Intermediate or equivalent ii) DAE or equivalent
03.	Economics	BS	100 50	'A' level/ H.S.C. (with Economics) /Intermediate Commerce Intermediate Science (with Physics, Mathematics or Statistics).
Note: In case of vacant seats, allocation of seats for Arts or Science can be interchanged.				
04.	Education	BS	50 02	Intermediate Arts, Science, Commerce and Home Economics. (Preference to be given with Education) DAE
05.	English	BS	50	i. 'A' Level (with English Literature) ii. 'A' Level (with English General [A,B or C grade]) iii. Intermediate (after 'O' Level) iv. Intermediate (with at least 50% marks in Elective English) v. Intermediate (with at least 50% marks in Advance English) vi. Intermediate (with at least 60% marks in English Compulsory)
Note: Admissions will be given according to above order of priority.				
06.	General History	BS	90 10	Intermediate (Arts, Science, Commerce) 25 seats Intermediate with General History, 65 on open merit. DAE
Note: Incase of vacant seats, allocation can be interchanged.				

07.	International Relations	BS	50 15 05	Intermediate Arts with (Civics, General History, Economics, Sociology, Logic) Intermediate Science with 1 st division Intermediate Commerce with 1 st division
Note: Incase of vacant seats, allocation can be interchanged.				
08.	Islamic History	BS	100	i) Intermediate Arts (with Islamic History) ii) Intermediate Arts (Preference will be given to candidates with Islamic Learning, General History or Arabic) Left-over seats will be given to Intermediate Arts, Science or Commerce.
09.	Library & Information Science	BS	50	Intermediate
10.	Mass Communication	BS	35 02	Intermediate (Arts/Science/Commerce/ Home Economics) or equivalent DAE
<i>Note: i) Calculation of Merit = (Total % marks + % marks in English + % marks in Urdu) / 3</i>				
<i>ii) For those who do not have Urdu(Compulsory) as a subject in the pre-requisite Exam, the merit formula will be = (Total % + % marks in English) / 2</i>				
11.	Persian	BS	40	Intermediate / DAE
12.	Philosophy	BS	60	Intermediate (Science, Arts, Commerce), Diploma in Fine Arts or equivalent
13.	Political Science	BS	60 10	Intermediate (with Civics) Intermediate Science or Commerce (with at least 50% marks)

14.	Psychology	BS	25 18 02	Intermediate Arts / Science (with Psychology) Intermediate Arts/Science/Commerce/Home Economics/Computer Science/A-Level with (1st division) DAE (with 1 st Division)
Note: Incase of vacant seats, allocation can be interchanged.				
15.	Sindhi	BS	75	Intermediate (with Sindhi as a Optional or Compulsory subject at HSC in Arts/Science/ Commerce)
16.	Sociology	BS	40 05 05	Intermediate Arts First preference: 1st division with Sociology. Second preference: 1st division with Economics, Civic, Psychology, Education, Social Work or Statistics. Third preference: Intermediate with 45% mark in Sociology. Fourth preference: Intermediate with Economics, Civic, Psychology, Education, Social Work or Statistics. Intermediate Science with at least 55% marks Intermediate Commerce with at least 55% marks
17.	Social Work	BS	35 05 05 05	Intermediate Arts Intermediate Science (Pre-Medical) Intermediate Science (Pre-Engineering) Intermediate Science (Computer Science)
18.	Special Education	BS	50	Intermediate Arts, Science, Commerce
19.	Urdu	BS	60	i)Intermediate with Urdu Advance (at least 45% marks) ii)Intermediate with Urdu Compulsory (at least 60% marks)
20.	Women Studies	BS	50	Intermediate or equivalent

Faculty of Science

S.No.	Department	Class	No. of Seats	Required eligibility
01	Agriculture & Agribusiness Management	BS	50	Intermediate Science or equivalent
02.	Applied Chemistry	BS	96 15	Intermediate Science (with Mathematics, Physics, and Chemistry) DAE (with Chemical Technology)
03.	Biochemistry	BS	65	Intermediate Science (with Chemistry and Biology)
04.	Botany	BS	100	Intermediate Science (Biology Group)
05.	Chemistry	BS	120 05	Intermediate Science (with Chemistry) DAE
06.	Food Science and Technology	BS	24 06	Intermediate Science with Physics, Chemistry and Mathematics Intermediate Science with Physics, Chemistry and Biology
07.	Geography	BS	60 30 30	Intermediate Science (Pre Engineering) Intermediate Science (Biology) Intermediate Arts (with Geography)
08.	Geology	BS	75	Intermediate Science (Pre-Engineering/ Pre-Medical)

09.	Mathematics	BS	140	Intermediate Science / Arts (with Mathematics or Mathematics certificate course from University of Karachi). DBA with Mathematics
10.	Microbiology	BS	90	Intermediate Science (with Biology)
11.	Physics	BS	120 06	Intermediate Science (with Physics and Mathematics) DAE (Electronics, Mechanical, Electrical, Radio, T.V.)
12.	Physiology	BS	100	Intermediate Science (with Biology)
13.	Statistics	BS (Statistics)	65 05	Intermediate Science/Arts (with Mathematics) DAE (with Mathematics)
		BS (Actuarial Science & Risk Management)	60	Intermediate Science/Arts (with Mathematics or equivalent examination with at least 50% marks)
14.	Zoology	BS	120	Intermediate Science (Biology group)

Faculty of Islamic Studies

S.No.	Department	Class	No. of Seats	Required eligibility
01.	Islamic Learning	BS	50	Intermediate Arts, Science, Commerce (preference would be given to students who had optional Islamic Studies in Inter).
02.	Usool-uddin	BS	50	Intermediate or equivalent

Faculty of Pharmacy

S.No.	Department	Class	No. of Seats	Required eligibility
01.	Pharmacy	Pharm-D	200	Intermediate Science (Biology Group) with at least 60% marks ('B' Grade)

Appendix -B

Important Instruction

Appendix I-B includes the names of those departments where admissions to BS / B.E are granted on the basis of merit and aptitude test. Admission schedule for these departments is advertised in the newspapers separately. Candidates seeking admission to departments shown in **Appendix 1-A** should not mention departments of **Appendix 1-B** in the admission form enclosed herewith.

S.No.	Department	Class	No. of Seats	Required eligibility
<u>Faculty of Arts</u>				
01.	Visual Studies	BS Architecture / Design / Fine Art	90	Intermediate/ SBTE Fine Art / Design / Architecture with 60% marks (Admission to Architecture requires HSC pre-engineering or equivalent)
<u>Faculty of Science</u>				
01.	Applied Physics	BS	40	Intermediate (Pre-Engineering)
02.	Biotechnology	BS	60	Intermediate (Pre-Medical/Pre-Engineering)
03.	Computer Science	BS	105	H.S.C. (with Mathematics) or equivalent with at least 55% marks) Diploma of Associate Engineering with at least 65% marks.
Candidates with B.A./B.Sc. degrees are not eligible for admission in BS program				
04.	Environmental Studies	BS	25	Intermediate Science or equivalent
<u>Faculty of Engineering</u>				
01.	Chemical Engineering	B.E.	40	Intermediate Science (with Mathematics, Physics, Chemistry)
<u>Faculty of Administrative and Management Sciences</u>				
01.	Business Administration	BBA	50	Intermediate (Arts, Science, Commerce) with at least 50% marks
02.	Public Administration	BPA	60	Intermediate (Arts, Science, Commerce)
3.	Commerce	BS	30 30	Intermediate (Commerce) Intermediate (Arts/Science)

Appendix- C
Major and Subsidiary subjects for BS
(Hons.) in the Faculty of Science

The subjects are to be selected according to the following table:

MAJOR DEPARTMENT

	Subsidiary-I	Subsidiary-II
APPLIED CHEMISTRY		
	Mathematics	Physics
BIOCHEMISTRY		
	Chemistry	Botany
	Chemistry	Zoology
	Chemistry	Microbiology
	Botany	Zoology
	Microbiology	Botany
	Microbiology	Zoology
	Chemistry	Physiology
	Biostatistics	Mathematics
	Zoology	Physiology
	Botany	Physiology
	Physiology	Microbiology
	Biostatistics	Chemistry
	Biostatistics	Microbiology
	Biostatistics	Physiology
	Biostatistics	Zoology
	Biostatistics	Botany
BOTANY		
	Chemistry	Zoology
	Chemistry	Microbiology
	Chemistry	Geology
	Chemistry	Physiology

Zoology	Geology
Zoology	Geography
Biochemistry	Zoology
Biochemistry	Chemistry
Biochemistry	Microbiology
Biochemistry	Physiology
Biostatistics	Zoology
Biostatistics	Geography
Biostatistics	Chemistry
Biostatistics	Biochemistry
Biostatistics	Physiology
Biostatistics	Microbiology
CHEMISTRY	
Physics	Mathematics
Botany	Zoology
Statistics	Mathematics
Biochemistry	Botany
Biostatistics	Zoology
Biostatistics	Geography
Biostatistics	Physiology
Biostatistics	Biochemistry
Biostatistics	Microbiology
Biostatistics	Botany
Microbiology	Physiology
Microbiology	Botany
Botany	Geology
Zoology	Geology
Geography	Geology
Statistics	Mathematics
Biochemistry	Zoology
Biochemistry	Physiology
Biochemistry	Microbiology

ECONOMICS	
Geography	Geology
Chemistry	Geology
Chemistry	Microbiology
Chemistry	Geography
Mathematics	Statistics
Mathematics	Geography
Physics	Mathematics
GEOGRAPHY	
Mathematics	Physics
Mathematics	Economics
Geology	Chemistry
Geology	Mathematics
Chemistry	Geology
Botany	Zoology
Botany	Biostatistics
Zoology	Psychology
Chemistry	Biostatistics
Zoology	Biostatistics
Botany	Psychology
Mathematics	Statistics
Mathematics	Biostatistics
Geology	Biostatistics
GEOLOGY	
Chemistry	Physics
(Only for Pre-Engineering Group)	
Chemistry	Geography
Chemistry	Botany
Chemistry	Zoology
Botany	Zoology
Geography	Biostatistics
Geography	Mathematics
Mathematics	Physics

MATHEMATICS

Physics	Geology
Physics	Geography
Physics	Chemistry
Physics	Statistics
Geography	Statistics
Statistics	Economics
Physics	Economics
Geography	Economics
Chemistry	Geology
Geography	Geology
Geography	Chemistry
Geology	Statistics
Geology	Economics
Statistics	Chemistry
Chemistry	Economics

MICROBIOLOGY

Botany	Chemistry
Chemistry	Zoology
Biochemistry	Botany
Biochemistry	Zoology
Biochemistry	Chemistry
Biochemistry	Physiology
Biostatistics	Chemistry
Biostatistics	Biochemistry

PHYSICS

Mathematics	Chemistry
Mathematics	Economics
Mathematics	Geography
Mathematics	Geology
Mathematics	Statistics

PHYSIOLOGY

Biochemistry	Zoology
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Biochemistry	Botany
Biochemistry	Chemistry
Biochemistry	Microbiology
Zoology	Botany
Zoology	Chemistry
Zoology	Microbiology
Botany	Chemistry
Botany	Microbiology
Chemistry	Microbiology
Biostatistics	Biochemistry
Biostatistics	Zoology
Biostatistics	Botany
Biostatistics	Microbiology
Biostatistics	Chemistry

PSYCHOLOGY

Mathematics	Statistics
Biochemistry	Physiology
Botany	Geography
Physiology	Zoology
Geography	Zoology
Microbiology	Zoology

STATISTICS

Mathematics	Physics
Mathematics	Chemistry
Mathematics	Geography
Mathematics	Psychology
Mathematics	Economics

ZOOLOGY

Biostatistics	Botany
Biostatistics	Biochemistry
Biostatistics	Geography
Biostatistics	Microbiology
Biostatistics	Physiology

Biochemistry	Botany
Biochemistry	Microbiology
Biochemistry	Physiology
Biochemistry	Chemistry
Botany	Geology
Chemistry	Botany
Chemistry	Microbiology
Chemistry	Geology
Physiology	Botany
Physiology	Microbiology
Botany	Chemistry
Botany	Geography

Note:

1. Students who offer Physics or Applied Chemistry as subsidiary should have passed the Intermediate or Higher Secondary Examination with Mathematics or Statistics.
2. Any student who has not passed Intermediate Science with Biology is not permitted to choose any subject from the Biology group.
3. For Psychology and Economics, rules regarding BS in Faculty of Arts will apply.
4. Only those students can offer Mathematics as a subsidiary subject who have taken Mathematics as an optional subject in the Intermediate, or who have passed certificate Course in Mathematics from Karachi University.

All BS students are advised to select their subsidiary subjects in consultation with the Chairperson of their major Department.

Appendix -D

Major and Subsidiary subjects for BS 4 years program in the Faculties of Arts and Islamic Studies

Students of BS (Hons.) in the Faculties of Arts and Islamic Studies can select one major and two subsidiary subjects from the following subjects:

S.No.	Subject
01.	Arabic
02.	Bengali
03.	Economics
04.	Education
05.	English
06.	French*
07.	General History
08.	Geography
09.	International Relations
10.	Islamic History
11.	Islamic Studies
12.	Italian*
13.	Japanese*
14.	Library & Information Science

15. Mass Communication
16. Mathematics
17. Persian
18. Philosophy
19. Political Science
20. Psychology
21. Sindhi
22. Social Work
23. Sociology
24. Special Education
25. Urdu
26. Women Studies

* for Subsidiary only

In order to select Major and Subsidiary subjects the following points should be kept in mind:

1. Students offering Economics as Major subject are not allowed to take Arabic, Persian, Urdu, Bengali or Sindhi as subsidiary subject.
2. French or Italian can be offered only as a subsidiary subject.

3. A student offering one language as major subject is allowed to offer another language as subsidiary.
4. A student offering Philosophy, Statistics or Geography as major can not offer Social Works as Subsidiary. However, a student offering Statistics as major has to offer Mathematics as subsidiary.
5. A Student can offer either Psychology or Geography but not both.
6. A student can offer only one subject from among General History, Islamic History, Islamic studies or Mathematics. However, Islamic History can be offered with Islamic studies. A student offering Islamic studies as major will have to follow rules governing BS in Islamic Learning.
7. International Relations cannot be offered together with Political Science.
8. A student offering Mass Communication as a major has to choose the subsidiary subject from the following two groups - one from each group:

Group A: Sociology, Psychology and Economics.

Group B: Islamic History, General History, Political Science, International Relations or any one language.

9. A student can offer Mathematics as subsidiary subject only if he / she have offered Mathematics as optional subject at Intermediate examination or have passed Certificate Course in Mathematics from Karachi University.

10. A student offering Islamic Studies as major subject can offer only one language from among Arabic, Persian, Urdu, Sindhi, English or Bengali.

11. The following subjects cannot be offered simultaneously as subsidiaries; only one from each group can be selected:

Group A: Psychology or Geography.

Group B: Sociology or Social Works.

Group C: Political Science or International Relations.

Group D: Islamic History or General History.

12. Students offering Geography or Statistics as major subject will be governed by rules concerning BS of Science Faculty.

13. A student may select the subject of Women Studies as a subsidiary in consultation with the Chairpersons of the major department.

Note: If a student selects a subsidiary subject which is not in accordance with the above directives, he/she will not be examined in that subject. Therefore, every student is directed to consult Chairperson of the major department before selecting subsidiary subjects.

A candidate choosing a wrong combination is bound to get the wrong subject changed with the permission of Chairperson / Concerned Dean.

Appendix - E

Faculty of Arts

S.No.	Department	Class	No. of Seats	Required eligibility
01.	Arabic	BS (III)	50	i) B.A. (with Arabic) ii) B.A., B.Sc., B.Com. or equivalent with certificate in Arabic from some recognized institution. iii) <i>Al-Shahadat Al-Aalia</i> with Matric from any SSC Board* *These candidates are required to submit complete equivalence certificate issued by the University of Karachi.
02.	Bengali	BS (III)	20	B.A., B.Sc., B.Com., B.Sc.(Home Economics) (with Bengali)
03.	Economics	BS (III)	100 75	B.A., B.Com., B.Sc. (with Economics) B.Sc. (with Mathematics, Physics or Statistics). In case of vacant seats, allocation of seats for Arts or Science can be interchanged on the basis of merit.
04.	Education	BS (III)	50 04	i) 35 seats for B.A. with Education ii) 15 seats for B.A., B.Sc., B.Com., B.Sc.(Home Economics) (Preference to be given with Education) B.Ed.
05.	English	BS (III)	40	i) Graduation (with at least 45% marks in Elective English) ii) Graduation (with at least 55% marks in Compulsory English) Note: Admissions will be given according to above order of priority.
06.	General History	BS (III)	100	B.A., B.Sc., B.Com. 30 seats for B.A. with General History, 70 on open merit) Note: Incase of vacant seats, allocation can be interchanged.
07.	International Relations	BS (III)	70 15 05	B.A. 1 st division (with International Relations, Political Science, Economics, General History, Philosophy, Sociology, Mass Communication) B.Sc. with 1 st division B.Com. with 1 st division Note: Incase of vacant seats, allocation can be interchanged.

08.	Islamic History	BS (III)	100	i) B.A. with Islamic History ii) B.A. with Islamic Learning, Islamic Culture, General History or Arabic. iii) B.A., B.Sc., B.Com.
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09.	Library & Information Science	B.L.I.S.	50	B.A., B.Sc., B.Com., B.Sc. (Home Economics)
			08	B.A. with Library Science (Minimum 55% marks)
			02	Reserved for candidates who have worked in professional capacity in a library of a recognized institution for at least 3 years, who fulfill the following conditions: i) Must be Second class graduate. ii) Certificate from the Head of the Institution giving justification and recommendation for the degree. (The condition of having graduated within the last five years will not apply to the applicants for these seats)
				If these seats remain vacant, they can be filled with applicants who have done B.A.
		M.L.I.S.	60	B.L.I.S. (Admissions to M.L.I.S. are granted at department's level. Detail may be obtained from the Chairperson of the Department.)

10.	Mass Communication	BS (III)	35	B.A., B.Sc., B.Com., B.Sc.(Home Economics) or equivalent
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Note:

i) Calculation of Merit = (Total % marks + % marks in English + % marks in Urdu) / 3

ii) For those who do not have Urdu(Compulsory) as a subject in the pre-requisite Exam, the merit formula will be = (Total % marks + % marks in English) / 2

11.	Pakistan Studies	M.A.	50	B.A./B.Sc./B.Com./B.A.(Hons)/B.Sc.(Home Economics) 30 for B.A., 3 for B.Com., 8 for B.Sc., 6 for B.A./B.Sc.(Hons) and 3 for B.Sc. (Home Economics)
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12.	Persian	BS (III)	30	i) Graduation (with Persian) ii) Graduation (with Diploma Khana Farhang Iran, or Diploma in Persian Language from Karachi University.) iii) Graduation with Advanced Urdu
13.	Philosophy	BS (III)	60	B.A., B.Com., B.Sc. or equivalent
14.	Political Science	BS (III).	100	B.A. (with Political Science)
15.	Psychology	BS (III)	30 23 02	B.A./B.Sc. (with Psychology) B.A./B.Sc./B.Com./B.Sc.(Home Economics)/BBA/BPA/BS (Computer Science) with 1st division. MBBS/B.E. (with 1 st Division) Incase of vacant seats, allocation can be interchanged.
16.	Sindhi	BS (III)	75	Graduation (with Sindhi Optional/ Compulsory subject)
17.	Sociology	BS (III)	40 5 10 5	First preference: B.A. (1st division with Sociology) Second preference: B.A. (1st division with Economics, Political Science, Psychology, Education, Social Work, Statistics, General History). Third preference: B.A. (with 45% marks in Sociology) Fourth preference: B.A (with Economics, Political Science, Psychology, Education, Social Work, Statistics, General History). B.Sc. with at least 50% marks B.Sc.(Home Economics) with at least 50% marks B.Com. with at least 50% marks
18.	Social Work	BS (III).	35 10 5	B.A. (with Social Work) B.A. (with Sociology or Psychology) B.Sc. (with Biology)

19.	Special Education	BS (III)	45	i) B.A. with Psychology, Education, Social Work or Sociology. ii) Graduation
			20	Special School nominations (Govt. and non-Govt.)
20.	Urdu	BS (III)	70	i) Graduation with Urdu Advance (at least 45% marks) ii) Graduation with Urdu Compulsory
	M.A. (Linguistics)		25	Candidate may apply for admission after completion of M.A.(Previous). Admissions are granted by the department.
21.	Women Studies	BS (III)	50	Graduation or equivalent

Faculty of Science

S.No.	Department	Class	No. of Seats	Required eligibility
01.	Applied Chemistry	BS (III)	12	B.Sc. (Industrial Technology)
03.	Biochemistry	BS (III)	30	B.Sc. (with Biochemistry) or B.Sc. Medical Technology with Physiology and Biochemistry
04.	Botany	BS (III)	50	B.Sc. (with Botany)
06.	Chemistry	BS (III)	30 70	B.Sc. with Chemistry (Pre Engineering) B.Sc. with Chemistry (Pre Medical/ Geography/Geology)
08.	Genetics	M.Sc.	72	i) B.Sc. with Biology subjects (Zoology, Botany, Microbiology, Biochemistry, Physiology and Chemistry) ii) B.Sc. with Psychology, Geography, Geology or Statistics with any two subjects mentioned in (i). iii) B.Sc. (Medical Technology)/Agriculture/ B.Pharm. or equivalent.

iv) B.Sc.(Honours Biology Group) 2nd year with an application for conversion through chairperson. These students will not have to wait for one year after completion of two years B.Sc.

09.	Geography	BS (III).	25 20	B.Sc. (with Geography) B.A. (with Geography)
10.	Geology	BS (III)	15	B.Sc. (with Geology)
11.	Health & Physical Education	M.Sc.	50	i) B.P.Ed. (Bachelor degree in Physical Education) ii) B.A./B.Sc. (with Physical Education as a subject) iii) M.B.BS/B.Sc. (Physiotherapy / Medical Technology / O.T. / Nursing) / B.Pharm iv) B.A./B.Sc./B.Com. and participation in any game at College, City, Province or National level. v) B.E., BBA, BPA, L.L.B. and participation in any game at College, City, Province or National level.
12.	Mathematics	BS (III)	50	B.A./B.Sc.(with Mathematics or Diploma in Mathematics from Karachi University)
13.	Microbiology	BS (III)	45 03	B.Sc. (with Microbiology) i) Bachelor of Veterinary Science ii) Bachelor of Veterinary Medicine iii) B.Sc. Medical Technology with Microbiology
14.	Petroleum Technology	M.Sc.	20 15 05	B.Sc. and intermediate (Pre-Engineering) B.E./B.Sc. Engineering B.Tech.
15.	Physics	BS (III)	50	B.Sc.(with Mathematics and Physics)

16.	Physiology	BS (III)	35	i) Microbiology ii) Biochemistry iii) Zoology iv) Botany v) Chemistry vi) M.B.BS vii) D.V.M viii) B.Sc. Physiotherapy	(B.Sc. Pass) Biology Group with at least 60 % marks
17.	Statistics	BS (III)	50 10	B.A./B.Sc. (with Mathematics and Statistics) B.A./B.Sc./B.Com. or equivalent with P.G.D. in Statistics.	
18.	Zoology	BS (III)	120	B.Sc. (with Zoology)	

Faculty of Islamic Studies

S.No.	Department	Class	No. of Seats	Required eligibility
01.	Islamic Learning	BS (III)	50	B.A., B.Sc., B.Com. (Preference will be given to candidates with optional Islamic Studies in B.A.)
02.	Qur'an & Sunnah	M.A.	50	i) B.A. with (Optional Islamic Studies). ii) Al-Shahadat Al-Aalia with matric from any SSC Board* *These candidates are required to submit complete equivalence certificate issued by the University of Karachi.
03.	Usool Uddin	M.A.	50	i) B.A. with (at least 45% marks in Islamic Studies) ii) Al-Shahadat Al-Aalia with matric from any SSC Board* *These candidates are required to submit complete equivalence certificate issued by the University of Karachi.

Faculty of Administrative & Management Sciences

S.No.	Department	Class	No. of Seats	Required eligibility
01.	Commerce	BS (III)	120	B.Com.

Appendix -F

Important Instruction

Appendix F includes the names of those departments where admissions are granted by the Department on the basis of merit and aptitude test. Admission schedule for these departments is advertised in the newspapers separately. Candidates seeking admission to departments shown in **Appendix E** should not mention departments of **Appendix F** in the admission form enclosed herewith.

Faculty of Administrative and Management Sciences

S.No.	Department	Class	No. of Seats	Required eligibility
01.	Business Administration	MBA	50	Graduation with at least 50% marks
02	Public Administration	MPA	50	Graduation (Two years)

Faculty of Science

S.No.	Department	Class	No. of Seats	Required eligibility
01.	Applied Physics	M.Sc.	60	B.Sc. / B.Sc.(Hons.) (with Physics and Mathematics), BE Electronics and Electrical Engineering or equivalent
02.	Biotechnology	M.Sc.	50	B.Sc. / B.Sc. (Hons) / B.Sc. (Medical Technology) with Microbiology or Biochemistry
03.	Computer Science	BS (III)	70	BCS from any recognized university or equivalent examination.
04.	Environmental Studies	M.Sc.	25	B.Sc., B.Pharm., B.E., M.B.BS, B.Sc (Nursing) or any relevant degree

APPENDIX-G

THE FOLLOWING UNDERTAKING IS TO BE FURNISHED BY THE CANDIDATES FOR ADMISSION ON JUDICIAL STAMP PAPER OF RS.20/- AT THE TIME OF COMPLETING ADMISSION FORMALITIES

UNDERTAKING

I _____ S/o , D/o _____ hereby undertake to abide by the following:

- i) That I shall not indulge in any political or unlawful activity at the campus.
- ii) That I shall strictly follow the University rules and regulations and maintain discipline.
- iii) That in case I violate the above undertaking, I may be expelled from the University without any further notice.

Place:	Signature of the Applicant
Date:	in the presence of:
Witness No.1	Witness No.2
Signature with official Seal, name & address:	Signature with official Seal, name & address _____
_____	_____
CNIC # _____	CNIC # _____

(THE WITNESS MUST BE A GOVERNMENT OFFICER OF GRADE 17 OR ABOVE)

DECLARATION BY PARENT/GUARDIAN:

I _____ Son / Wife of _____ adult, resident of _____
(Name of parent/guardian) (Name of parent/guardian's father) (address of parent/guardian)
religion _____ CNIC # _____ do hereby state on solemn affirmation that I bind myself responsible to the declaration signed by my son/daughter/ward submitted as above to the University by him/her.

Signature of Parent

Solemnly affirmed and accepted before me this _____ day of _____, 2007 By Mr. _____
(date) (month) (name of father/guardian)
who is identified by Mr. _____ who is personally known to me.
(name of the person identifying)

Seal:

Date: _____
Signature of the Oath Commissioner

APPENDIX-H

EVENING PROGRAM

Evening Program admissions will be announced separately in December 2007 for BS and May 2008 for Masters. However, the process of admission in the evening program of computer science (BS/BSSE/MCS) and Business Administration (MBA) is announced with the morning program of these Departments. The brochure of the Evening Program contain details about the courses offered, fee structure, and the relevant rules and regulations. Following Certificate, Diploma and Degrees are offered in evening program.

CERTIFICATE PROGRAMS

01. Mass Communications
02. Persian
03. Mathematics
04. Petroleum Technology
05. Urdu

DIPLOMA PROGRAMS

01. Contemporary Arabic
02. Criminology
03. Economics and Finance
04. Environmental Sciences
05. International Relations
06. Local Government (DLG)
07. Mathematics
08. Persian
09. Petroleum Technology
10. Public Administration (PGDPA)
11. Quranic Arabic
12. Speech & Language Pathology

BACHELOR'S PROGRAMS

01. Agriculture
02. Applied Chemistry
03. B. Com
04. B.B.A
05. Biochemistry
06. Botany
07. Chemistry
08. Computer Science (BSCS/BSSE)
09. Economics

10. English
11. Food Science & Technology
12. International relations
13. Mass Communication B.A.(Hons.)
14. Pharmacy (Pharm-D)
15. Physiology
16. Psychology
17. Public Administration (BPA)
18. Sociology
19. Special Education
20. Women studies
21. Zoology

MASTER'S PROGRAMS

01. Administrative Sciences (MAS)
02. Applied Physics (with specialization in Electronics)
03. Applied Statistics
04. Audiology and Speech Pathology
05. Biochemistry
06. Botany
07. Business Administration
08. Chemistry
09. Commerce M.Com. (General / Insurance)
10. Computer Science

11. Criminological Sciences
12. Criminology
13. Economics
14. Economics & Finance
15. English
16. English (Literature / Linguistic)
17. Environmental Sciences
18. Health and Physical Education
19. Industrial & Business Mathematics (M.I.B.M)
20. International Relations
21. M. Pharm.
22. Mass Communications
23. Microbiology
24. Petroleum Technology
25. Physics (with spec. in Electronics & Communications)
26. Physiology
27. Population Sciences
28. Public Administration- MPA
29. Sociology
30. Transport management
31. Zoology
32. MS Remote Sensing and Geographical Information Systems

APPENDIX - I

Closing percentage by category and eligibility for BS HONS. (1st Year) & Pharm-D Admissions 2009

S. NO	DEPARTMENT NAME	DEPTT CODE	CATEGORY		
			"K"	"S"	"P"
1	ACTUARIAL SCIENCE & RISK MANAGEMENT	ACT	67.10	--	--
2	AGRICULTURE	AGR	65.46	--	--
3	APPLIED CHEMISTRY	ACH	69.82	--	--
4	APPLIED CHEMISTRY (DAE)	ACH	59.54	--	69.53
5	ARABIC	ARB	45.28	46.01	49.55
6	BIOCHEMISTRY	BCH	75.55	--	--
7	BOTANY	BOT	68.64	--	--
8	CHEMISTRY	CHM	73.37	--	--
9	CHEMISTRY (DAE)	CHM	69.89	--	--
10	ECONOMICS (SCIENCE)	ECO	68.37	--	--
11	ECONOMICS (with ECO or COM)	ECO	65.55	--	--
12	EDUCATION	EDU	64.19	--	--
13	EDUCATION (DAE)	EDU	71.37	--	--
14	EDUCATION (with EDU)	EDU	65.82	--	--
15	ENGLISH ('A' Level)	ENG	56.46	--	--
16	ENGLISH (Compulsory with =>60% marks)	ENG	72.55	--	--
17	ENGLISH (Elective & Advance with =>45% marks)	ENG	50.01	--	--
18	ENGLISH (HSC after 'O' Level)	ENG	48.55	--	--
19	FOOD SCIENCE (Biology)	FST	81.55	--	--
20	FOOD SCIENCE (Maths)	FST	73.37	--	--
21	GENERAL HISTORY (DAE)	GHS	49.71	--	--
22	GENERAL HISTORY (Merit)	GHS	58.28	--	--
23	GENERAL HISTORY (with GHS)	GHS	45.64	--	--
24	GEOGRAPHY (Biology)	GGR	66.64	--	--
25	GEOGRAPHY (Maths)	GGR	61.55	--	--
26	GEOGRAPHY (with GGR)	GGR	52.91	--	54.46
27	GEOLOGY	GEO	69.28	--	--
28	INTERNATIONAL RELATIONS (COMMERCE)	IRL	74.01	--	--
29	INTERNATIONAL RELATIONS (SCIENCE)	IRL	73.19	--	--
30	INTERNATIONAL RELATIONS (with CIV, GHS, ECO, SCL, LOG)	IRL	53.01	--	--
31	ISLAMIC HISTORY (Merit)	IHS	52.82	--	--
32	ISLAMIC HISTORY (with IHS)	IHS	54.10	--	--

33	ISLAMIC HISTORY (with ISL, GHS, ARB)	IHS	52.91	--	--
34	ISLAMIC LEARNING (Merit)	ISL	51.46	--	--
35	ISLAMIC LEARNING (with ISL)	ISL	52.55	--	--
36	LIBRARY & INFORMATION SCIENCES	LSC	56.10	--	--
37	MASS COMMUNICATION (According to formula)	MCD	72.52	--	--
38	MASS COMMUNICATION (DAE) (According to formula)	MCD	74.71	--	--
39	MATHEMATICS	MAT	65.01	--	--
40	MICROBIOLOGY	MBI	76.19	--	--
41	PERSIAN	PER	45.28	45.28	45.55
42	PHARMACY	PHM	77.91	--	--
43	PHILOSOPHY	PHI	56.55	--	--
44	PHILOSOPHY (DAE)	PHI	62.79	--	--
45	PHYSICS	PHY	64.10	--	--
46	PHYSICS (DAE)	PHY	70.71	--	--
47	PHYSIOLOGY	PHZ	72.46	--	--
48	POLITICAL SCIENCE (SCI, COM)	POL	67.19	--	--
49	POLITICAL SCIENCE (with CIV)	POL	45.64	63.91	46.46
50	PSYCHOLOGY (DAE)	PSY	62.01	--	--
51	PSYCHOLOGY (Merit)	PSY	73.55	--	--
52	PSYCHOLOGY (with PSY)	PSY	49.73	--	58.82
53	SINDHI	SND	45.01	51.37	52.37
54	SOCIAL WORK (Arts)	SWK	45.10	46.46	49.73
55	SOCIAL WORK (Computer Science)	SWK	55.19	--	--
56	SOCIAL WORK (Pre-Engineering)	SWK	63.46	--	--
57	SOCIAL WORK (Pre-Medical)	SWK	66.73	--	--
58	SOCIOLOGY (COMMERCE)	SCL	64.73	--	--
59	SOCIOLOGY (SCIENCE)	SCL	70.01	--	--
60	SOCIOLOGY (with ECO, CIV, PSY, EDU, SWK, STA)	SCL	60.91	--	--
61	SOCIOLOGY (with SCL)	SCL	48.28	--	--
62	SOCIOLOGY (with SCL =>45% marks)	SCL	48.73	--	--
63	SPECIAL EDUCATION	SPE	57.19	--	--
64	STATISTICS (with MAT)	STA	65.01	--	--
65	STATISTICS (DAE+MAT)	STA	67.07	--	--
66	URDU (Advanced with =>45% marks)	URD	45.01	--	51.82
67	URDU (Compulsory with =>60% marks)	URD	50.01	53.28	47.91
68	USOOL-UD-DIN	USD	47.01	54.19	61.29
69	WOMEN'S STUDIES	WST	47.37	--	--
70	ZOOLOGY	ZOO	70.82	--	--

APPENDIX - J

closing percentage by category and eligibility for BS(Third Year) \ Master Admissions- 2009

S. NO	DEPARTMENT NAME	DEPTT	CATEGORY		
		CODE	"K"	"S"	"P"
1	APPLIED CHEMISTRY	ACH	-	--	--
2	ARABIC	ARB	51.56	-	67.56
3	BENGALI	BEN	-	-	-
4	BIOCHEMISTRY	BCH	56.00	--	--
5	BOTANY	BOT	51.94	--	--
6	CHEMISTRY (Pre-Engg.)	CHM	51.94	--	--
7	CHEMISTRY (Pre-Med.)	CHM	61.00	--	--
8	COMMERCE	COM	61.33	--	--
9	ECONOMICS (SCIENCE)	ECO	46.10	53.41	45.48
10	ECONOMICS (with ECO or COM)	ECO	58.98	--	--
11	EDUCATION(Merit)	EDU	55.80	--	--
12	EDUCATION (B.Ed)	EDU	54.50	--	--
13	EDUCATION (with EDU)	EDU	56.20	--	--
14	ENGLISH (Compulsory with =>60% marks)	ENG	60.73	--	--
15	ENGLISH (with Advance with =>45% marks)	ENG	47.40	--	--
16	GENERAL HISTORY	GHS	45.80	--	55.63
17	GENERAL HISTORY (Merit)	GHS	45.73	54.20	53.00
18	GENETICS	GEN	53.94	--	--
19	GEOGRAPHY (ARTS)	GGR	45.40	--	46.75
20	GEOGRAPHY (Science)	GGR	--	--	45.63
21	GEOLOGY	GEO	47.19	--	70.00
22	HEALTH & PHYSICAL EDUCATION	HPE	45.90	49.46	45.64
23	INTERNATIONAL RELATIONS (ARTS)	IRL	60.20	64.00	60.40
24	INTERNATIONAL RELATIONS (SCIENCE)	IRL	60.13	65.64	--
25	INTERNATIONAL RELATIONS (Commerce)	IRL	60.73	61.54	60.40
26	ISLAMIC HISTORY (B.A)	IHS	45.30	45.20	48.67
27	ISLAMIC LEARNING	ISL	52.07	--	--
28	LIBRARY & INFORMATION SCIENCES(55 marks in opt. LSC)	LSC	49.20	--	--
29	LIBRARY & INFORMATION SCIENCES(General)	LSC	50.90	--	--
30	MASS COMMUNICATION (According to formula)	MCD	60.30	--	--

31	MATHEMATICS	MAT	54.00	--	--
32	MICROBIOLOGY(B.Sc with Medical Tech.)	MBI	70.86	--	--
33	MICROBIOLOGY(B.Sc with Microbiology.)	MBI	56.00	--	--
34	PAKISTAN STUDIES (Arts)	PAK	45.70	--	--
35	PAKISTAN STUDIES (Commerce)	PAK	53.47	--	--
36	PAKISTAN STUDIES (Home Economics)	PAK	--	--	--
37	PAKISTAN STUDIES (Hons)	PAK	54.21	68.67	--
38	PAKISTAN STUDIES (Science)	PAK	49.69	66.61	46.00
39	PERSIAN	PER	--	--	54.75
40	PETROLEUM TECHNOLOGY(B.Sc)	PET	46.31	51.03	--
41	PETROLEUM TECHNOLOGY(B.Tech.\ B.E.)	PET	--	70.00	--
42	PHILOSOPHY	PHI	45.30	45.90	48.47
43	PHYSICS	PHY	45.31	57.56	46.55
44	PHYSIOLOGY	PHZ	54.22	74.06	60.00
45	POLITICAL SCIENCE	POL	45.10	54.90	53.50
46	PSYCHOLOGY (with PSY)	PSY	47.90	--	--
47	PSYCHOLOGY (B.A. \ B.Sc \ B.Com)	PSY	60.90	66.12	64.55
48	QURAN & SUNNAH	QAS	46.40		45.56
49	SINDHI	SND	54.30	52.91	--
50	SOCIAL WORK (Arts)	SWK	50.20	--	47.10
51	SOCIAL WORK (SCL \ PSY)	SWK	47.80	--	56.20
52	SOCIAL WORK (Science)	SWK	45.47	--	49.64
53	SOCIOLOGY (COMMERCE)	SCL	56.55	--	--
54	SOCIOLOGY (SCIENCE)	SCL	52.13	55.06	--
55	SOCIOLOGY (Arts)	SCL	55.10	--	--
56	SOCIOLOGY (Home Economics)	SCL	50.07	--	--
57	SPECIAL EDUCATION	SPE	46.20	--	--
58	STATISTICS	STA	45.29	54.50	48.38
59	STATISTICS (with PGD)	STA	51.40	--	--
60	URDU (Advanced with)	URD	45.10	--	49.13
61	URDU (Compulsory)	URD	47.00	--	56.50
62	USOOL-UD-DIN	USD	45.00	54.33	60.44
63	WOMEN'S STUDIES	WST	47.63	--	47.38
64	ZOOLOGY	ZOO	45.19	51.21	53.50

APPENDIX- K

IMPORTANT SEMESTER RULES

Below are the few important semester rules taken from the Semester Rules Book-2002 for the convenience of the students in order to remove their difficulties which they face very soon after getting admission:

Rules for BS Program

Subsidiary Subjects:

- (i) A student will choose two subjects as Subsidiary Subjects out of the approved list of combination of such subjects, in addition to a Major subject.
- (ii) The allocation of subsidiary subjects will be decided by the Dean in consultation with the Chairperson of the Department.

Course Requirement:

Humanities will be offered to only those students who do not have Urdu as their Mother tongue. Science Students are ineligible to take Natural Science. Arts students who have passed science subject at Intermediate or A/O levels are also not eligible to take Natural Science.

Grade Point & CGPR Formula:

Following is the table for Numeric & Alphabetical grades with Grade Point & CGPR formula for BS (Four Years) degree program:

Grade Point Table

Numeric Score	Alphabetic Grade	Grade Point
90 & above	A+	4.0
85-89	A	4.0
80-84	A-	3.8
75-79	B+	3.4
71-74	B	3.0
68-70	B-	2.8
64-67	C+	2.4
61-63	C	2.0
57-60	C-	1.8
53-56	D+	1.4
50-52	D	1.0
BELOW 50	FAILS	0.0

Formula:-

Grade points in a course= (Credit hours of the course)x (Grade point equivalent to the score given in the grade point)

$CGPR = \frac{\text{Total Grade Points in all the courses}}{\text{Total number of Cr. Hrs.}}$

* For the award of BS degree a student will have to obtain a minimum of 2.2 CGPR. 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 61 marks, i.e. C⁻, D⁺ or D Grade.

Appearance in the mid-term exam is compulsory for each student, otherwise he/she would be declared fail in that paper. Such candidates have to appear in the mid-term test in the next year.

CHANGE OF SUBJECTS:

- a. Student can change the major subject in the second year if they obtain at least 70% marks in both the semesters in their minor subject, which they want to offer as their major subject, provided that they have passed all the courses of first year and secured total aggregate of 60% provided further that the Chairpersons have no object to this change subject to the availability of subsidiary combination.
- b. Students seeking change in any of the minor subject can apply for change within 30 days of the start of the semester of 1st year as well as 2nd year. All such permissions would be granted by the Dean on the recommendation of the Chairperson, provided there is a provision of such combination in the statutes.

Assessment:

- (a) A minimum of 50% marks are required to pass. Both theory and practical exams are separate passing heads.

Rules for M.Sc. Program

Conditions for Thesis/ Projects:

1. M.A./M.Sc./M.Com. Final year students who have passed all the earlier courses and secured an average of minimum of 65% marks in 500 level courses, may be allowed to offer a thesis equivalent to 6 credit hours in lieu of two courses.
2. Students of M.A./M.Sc./M.Com. Final may be permitted to offer one project or

research report in lieu of one course of 3 credit hours, provided he/she secures minimum of 605 marks in 500 level courses, whereas in Sociology and Social Work it will be in lieu of 2 courses (called to be thesis) and in Library and Information Science it will be in lieu of one special course of 4 credit hours during the final year of their studies.

3. Students will not be allowed to write thesis and work on projects at the same time.

*Thesis/Project should be submitted on the last date of 2nd Semester Examination. However, a grace period of 40 days may be given by the Chairperson of the Department.

Assessment:

- (a) A minimum of 40% marks are required to pass. Both theory and practical exams are separate passing heads.
- (b) For M.B.A. 2.2 CGPR and where Grade Point System adopted before 2006, a minimum of 2.45 CGPR is required to obtain Master Degree.

General Rules

PROMOTION RULES:

1. Students shall not be promoted to the next higher class if he/she fails to clear 80% of courses.
2. A student repeating a course shall not be given a rank in order of merit.

ASSESSMENT:

The assessment of student's performance will be made out of 100 marks fixed for a course in general.

FAILURES / REPETITION:

1. If a student is unable to complete the attendance requirement in any course, he/she shall be required to attend the entire course whenever it is offered again. He/She will become eligible for taking the examination in the particular course only after he/she has completed its attendance requirement. Such a student shall pay a prescribed fee for attending the classes as Casual Student.
2. If a student, after completing the attendance requirement, does not appear or fails in the terminal examination of a course, he/she will be allowed to re-appear not more than twice in the terminal examination when it is offered in the next session after the payment of prescribed examination fee as Repeater Student.
3. A repeater student who fails to clear a course / courses in three regular, available chances will not be eligible to re-appear. He/She may be allowed as a last chance to attend the classes of the course/courses

he/she failed to clear. Permission to appear in the examination will be subject to completing attendance requirements.

4. If a student has failed in only one paper of a degree program and he/she declared to attend fresh classes as 3rd time failure shall be allowed to take condense classes to complete his degree program and to appear in the examination, provided he/she is losing one year if asked to attend fresh classes in regular semester.

CANCELLATION OF ADMISSION / RE-ADMISSION:

If a student admitted in BS 1st year or Masters (Prev.) or Pharm-D 1st Year class for the first time fails to attend the class for the 15 days, his/her admission shall stand cancelled. A student who has failed more than 50% courses in a year, his/her admission shall be cancelled. Cancelled admission of those students who fails in >50% of courses in their first academic year will be restored by Dean with Chairperson's recommendation.

APPENDIX- L

ADMISSION FEE
FIRST SEMESTER 2010

Admission and Tuition fees for the new entrants are as follows (Fee once deposited is non-refundable):

Department	B.S. Hons.	B.S. Third Year/
FACULTY OF ARTS		
Arabihc	3050	3100
Bengali	3050	3100
Economics	3050	3100
Education	3050	3100
English	3050	3100
General History	3050	3100
International relations	3050	3100
Islamic History	3050	3100
Mass Communication	3050	3100
Pakistan Study Center	xxx	3150
Persian	3050	3100
Philosophy	3050	3100
Political Science	3050	3100
Psychology	3050	3100
Sindhi	3050	3100
Social Work	3050	3100
Sociology	3050	3100
Urdu	3050	3100
Visual Studies	15000	xxx
Women Studies	6930	6930
FACULTY OF ENGINEERING		
Chemical Techonology	3050	xxx
FACULTY OF ISLAMIC STUDIES		
Islamic Learning	3050	3100
Usooluddin	xxx	3100
Quran & Sunnah	xxx	3100

FACULTY OF PHARMACY		
Pharm-D	3600	3650
FACULTY OF MANAGEMENT & ADMINISTRATIVE SCIENCES		
Business Administration	25155	25155
Commerce	3050	3100
Public Administration	8600	9600
FACULTY OF SCIENCE		
Agriculture and Agribusiness Management	13500	13500
Applied Chemistry	3100	3150
Applied Physics	3100	3150
Bio-Chemistry	3100	3150
Biotechnology	3100	3150
Botany	3100	3150
Chemistry	3100	3150
Computer Science	13650	13400
Environmental Studies	10350	10350
Food Science & Technology	3100	3150
Genetics	xxxx	3150
Geography	3100	3150
Geology	3100	3150
Health & Physical Education	xxx	7500
Mathematics	3100	3150
Microbiology	3100	3150
Petroleum Techonolgy	xxx	8750
Physics	3100	3150
Physiology	3100	3150
Statistics	3100	3150
Zoology	3100	3150