Department of

Commerce

Introduction
The department of Commerce has been imparting quality research oriented business education since 1974. In order to keep pace with the dynamic world of business and business education, the department of Commerce has brought a change in its curriculum which is in compliance with the courses which are demanded in the business world. The students are capable of acquiring good jobs both at national and international level.

The department has been instrumental in providing candidates with thorough knowledge and understanding of the principles of commerce and business.

Career Opportunities
The mission of the department of Commerce is to equip students with analytical tools required for business management in the contemporary competitive world and to provide students with opportunities to explore new business vistas.

Faculty Members

Associate Professors
• Dr. Tahir Ali (Chairman)

Assistant Professor
• Ms. Zaeema Asrar Mohiuddin

Lecturers
• Mr. Hasan Raza
• Ms. Sadaf Mustafa
• Ms. Ifrah Saher
• Mr. Muhammad Arfeen Siddiqui
• Ms. Aysha Fareed
• Mr. Muhammad Farukh Aslam

Programs Available
• BS
• M.Com.
• M. Phil./Ph.D.
For Further Enquiry
Telephone: 99261300-6
Website: www.uok.edu.pk
Karachi University

Business School

Introduction
Karachi University Business School (KUBS) was established during 1999-2000 because Institute of Business Administration (IBA), then a constituent of University of Karachi) was declared autonomous degree awarding institution.

KUBS within short period of time has become well established institution with good reputation and high image in the business world. KUBS is presently offers a number of programs, namely BBA (4-year Program), MBA (Morning) 3½ years, MBA (Morning) 1½ years after completion of 4-year BBA program (Morning & Evening) and MBA (Evening) 5-year programs, MBA (Banking)

2-year Program (Morning & Evening) is also run jointly with the Institute of Bankers Pakistan (IBP), MBA Executive 2 ½ years Program and M. Phil. Program.

KUBS has plans to start short-term certificate programs in the field of financial management, marketing communication, brand management, services marketing and MIS.

The KUBS is temporarily housed on the 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. We, at KUBS, are committed to impart general management education focusing 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 would like to congratulate our management, faculty, staff and students on winning the Asia's Best Business School Award under the category of "Innovation Leadership Award". The 2nd Asia's Best B-School Awards ceremony was held on July 22, 2011 in Singapore, where the award was presented to Dr. Abdul Rehman Zaki, Chairman Karachi University Business School (KUBS). KUBS was awarded for its tremendous contribution to the field of Business Management in the form of its high achieving graduates who are working in various reputable organizations across the globe. Asia's Best B-School Awards' is an initiative of CMO Asia Advisory Board and Advisory Council of the World Brand Congress. Business schools from 25 countries were nominated and awarded under various categories.

Facilities
Karachi University Business School (KUBS) is located in a serene corner of the University. It occupies space on the first and second floors of Commerce Building. The KUBS offers a well-equipped learning environment. A large number of books can be subscribed by the departmental library. Students can also consult Dr. Mahmood Hussain Library comfortable and quiet workspace with good number of books on business and professional journals. Business Periodicals both local and international are available at Dr. Mahmood Hussain Library of Karachi University.

KUBS also has a computer lab, which is equipped with open-access PCs with word processing, presentation, database and other software. Upgrading of lab and installment of new PCs is still in progress.

Career Opportunities
Tremendous opportunities exist 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.

Specific Research Areas
With the starting of M. Phil / Ph.D. programs we expect to extend research programs in future.

Faculty Members
Associate Professor
• Dr. Abdul Rehman Zaki (Chairman)

Assistant Professors
• Ms. Shahnaz Baloch
• Dr. Danish Ahmed Siddiqui
• Dr. Muhammad Asim

Lecturers
• Ms. Kausar Qureshi
• Mr. Shameel Ahmed Zubairi
• Mr. Syed Fakhre Alam Siddiqui

Programs Available
• BBA
• MBA
• M. Phil./Ph.D.
Department of

Public Administration

Introduction

The department of Public Administration prepares exceptional students for leadership positions in government, business and civil society. With its academic programs emphasizing academic excellence and practical orientation, the department has quickly occupied a unique position in the University of Karachi after being established formally as a department in the year 1995. The objective of DPA is to approach the issues relating to the stewardship of common goods with an interdisciplinary approach, at tries to work at the intersection of economics, business, law, political and social sciences.

Career Opportunities

The department of Public Administration aims to cater to the need of the times, and to impart such skills to its graduate which can be called upon under ever-changing circumstances. Having received training in leadership skills, sociopolitical analysis and management, the graduates of our department are serving at leading positions within the public and corporate sector, academia, research institutions and media.

Specific Research Areas

The department of Public Administration conducts analytically rigorous and theoretically informed research within the following fields:
- Governance and Globalization
- Public Policy and Policy Analysis
- Local Government Financial Management
- Marketing Management
- Human Resource Management

Facilities

The newly constructed state-of-the-art building houses not only multiple lecture rooms and the faculty offices (while offering significant flexible space for staff and students) but also has: Conference Hall and Common Rooms Well-equipped Computer Lab Seminar Library housing relevant books, journals and academic literature Research Lab.

Faculty Members

Professors
- Dr. Khalid M. Iraqi (Dean & Chairman)
- Dr. Akhtar Baloch

Assistant Professors
- Dr. S. Shabibul Hasan
- Ms. Afseehen Nizam
- Mr. Shahid Zaheer Zaidi
- Ms. Saima Akhter
- Dr. Ghazal Khawaja

Lecturers
- Mr. Mustafa Hyder
- Ms. Tehmina Faisal
Programs Available

Morning Program
• BPA (Hons.)
• MPA
• M. Phil./Ph.D.

Evening Program
• BPA (Hons.)
• MPA
• MAS
• MHRM
• PGD HRM
• PGDPA
• PGDPA & PPA

For Further Enquiry
Telephone: 99261300-6 Ext-2383
Website: www.uok.edu.pk
Department of Pharmacognosy

Introduction
This department was established in 1973. Since inception the department has been serving as backbone for the various branches of pharmaceutical sciences.

Pharmacognosy derives its origin from two Greek words, pharmakon (drug), and gnosis (knowledge). It is the study of natural bioactive substances obtained from terrestrial and marine plants, animals, microbes and minerals, for their physical, chemical, biochemical and biological properties, their taxonomy and ethnobiology. Pharmacognosy, one of the major areas of pharmaceutical sciences, is a highly interdisciplinary science, linked to phytochemistry, microbial chemistry, biosynthesis, biotransformation, chemotaxonomy, biotechnology and other biological and chemical sciences. Research in Pharmacognosy provides for the discovery of lead compounds for drug development, new methods of analysis for drugs, toxins and herbal preparations.

The objective of the department of Pharmacognosy is to educate students about the natural source of drugs, their pharmacognostic and phytopharmacological attributes, chemical and spectroscopic profile isolated molecules and their development as modern pharmaceutical products.

During the past four decades it shared with the other departments to produce more than 5000 B. Pharm and about 1500 Pharm-D graduates. The department of Pharmacognosy always endeavored to promote higher education this resulted in 58 M. Pharm, 34 M. Phil and 33 Ph.D. graduates. The active faculty members collectively produced more than 27 books, wrote hundreds of research papers in well reputed journals at national and international levels.

Facilities
The department has one lab at under graduate level and two graduate level labs. These are well equipped to conduct the lab work at both levels. The students can work on latest spectrophotometer, PCR, HPLC, lyophilizer, rotary evaporator, incubator oven, flash chromatography distillation assembly, two channel recorder, Plethysmometer Analgesia meters, soxhelet apparatus.

Specific Research Areas
Natural products, clinical studies, standardization of herbal products, formulations isolation of natural products, analysis of marine and terrestrial flora and fauna, ethnopharmacognosy, natural toxicants, nutraceuticals, cosmeceuticals, zooceuticals.

Career Opportunities
The graduates from the various programs offered can work in both modern and herbal pharmaceutical organizations, ministry of health, WHO, various drug regulatory bodies, research organizations, teaching institutions.

Faculty Members
Professors
- Dr. Ghazala H. Razwani (Dean)
- Dr. Syed Waseemuddin Ahmed (Chairman)
- Dr. Iqbal Azhar

Assistant Professors
- Ms. Farah Mazhar
- Dr. Muhammad Mohtasheem ul Hasan

Lecturers
- Mr. Salman Ahmed
- Ms. Safia Abidi

Programs Available
- Pharm-D
- M. Pharm.
- M. Phil./Ph.D.

For Further Enquiry
Department of Pharmacology

Introduction

The department of Pharmacology has been one of the important departments in the Faculty of Pharmacy since 1973, not only sharing a major load at the undergraduate level but also preparing students to fill the gap by suitably qualified manpower in the field of Pharmacy at Post graduate levels. The current expansion of the department and graduate programs in the areas of modern pharmacology including Neuropharmacology, Toxicology, and Biochemical Pharmacology will be expected to place the department among high research ranking departments in the University of Karachi.

The major academic objectives of the department are to facilitate Basic and Applied Research, educate under-graduate, and professional students in various disciplines and provide academic excellence. Department of Pharmacology has so far produced the highest number of Ph.Ds in the faculty of Pharmacy and a large number of M. Phil and M. Pharm. The department is proud of having highly competent primary faculty, research faculty and technical support staff.

Facilities

- The department of Pharmacology laboratories are well equipped to conduct the experimental courses of Pharmacology, Physiology, Biochemistry and Pathology.
- Separate Research labs are assigned for Research students which have all the basic and enhanced equipment and instruments required for research work.
- Computer and internet facilities have been provided, so students can have easy access to latest information and data.
- Pharmacy library has also been equipped with latest books and research journals of pharmacology.

Specific Research Areas

- Neuropharmacology
- Toxicology
- Biochemical Pharmacology
- Cardiac vascular pharmacology
- Psychopharmacology

Career Opportunities

After completion of M. Phil./Ph.D. in the field of Pharmacology successful, candidates will be able to perform duties in the following areas:
- Research
- Education
- Hospital Pharmacy
- Clinical Pharmacy
- Pharmaceutical Industry
- Drug testing laboratories

Faculty Members

Professors
- Prof. Dr. Rafeeq Alam Khan
- Dr. Rahila Najam (Chairperson)

Assistant Professors
- Ms. Tasneem Mariam Sajid
- Dr. Syeda Afroz
- Dr. Afshan Siddiq
- Ms. Sadia Ghousia Baig
- Dr. Nuzhat Sultana

Lecturers
- Ms. Azra Riaz
- Mr. Shadab Ahmed
- Ms. Saira Saeed Khan
Programs Available

- M. Phil./Ph.D.

For Further Enquiry
Telephone: 99261300-06 Ext-2206
Website: www.uok.edu.pk

Department of
Pharmaceutical
Chemistry

Introduction
Department of Pharmaceutical Chemistry is one of the most important academic units of the Faculty of Pharmacy. This department deals with the Physical and Chemical aspects of Pharmaceuticals, so as to inculcate students with the understanding of drug designing, drug development, quality control, drug stability, pharmacokinetics and; principles and methods of analysis. At the graduate level courses are designed to equip the students with strong background of the subject and provide in-depth knowledge of chemistry related to physiology, pharmacology, biochemistry and molecular biology. At present there are twelve full-time Faculty members among which eight are Ph.D. degree holders.

Facilities
Department is dedicated to provide sound education in the field of pharmaceutical chemistry. The curriculum focuses on laboratory experience supported by highly qualified and experienced professionals with well equipped labs. Presently three labs are working dealing with synthesis, analytical and Instrumental experimental work. For postgraduate students, two full fledged research labs are operating in the Research Institute of Pharmaceutical Sciences (RIPS) providing facilities regarding drug designing, drug development, drug stability, and analysis and method development.

Specific Research Areas
Department of Pharmaceutical Chemistry offers M. Phil, and Ph.D. programs to the graduate students. Experienced and actively growing research groups are working in the disciplines of drug designing and development, product and process development of drug, analytical aspects of drug, kinetic studies and drug stability. Groups of researchers are working with different research institutes, industries and organizations which promote many areas of collaborative research studies. Department has the honor of producing the first M. Pharm, the first M. Phil., the first Ph.D. of this Faculty and up till now 30 Ph.D's and more than 70 M. Pharms and M. Phils have been produced by the department.

Career Opportunities
Pharmacists have varied and tremendous career opportunities. They can go in production, quality control, marketing and regulatory affairs department of different pharmaceutical industries. They can also work as a part of a healthcare team comprising doctors, pharmacists and paramedical staff. As part of this team they can play an effective role as a drug expert able to selecting best treatments for managing patient care. A part from these, there is anumber of opportunities available in administrative and general management sites in governmental health department. One option available to pharmacists with higher degree is that they can join teaching and research in Universities and other research organizations.
Faculty of Arts

Faculty Members

Professors
• Dr. Faiyaz H. M. Vaid (Chairman)
• Dr. Shamim Akhtar

Associate Professors
• Dr. Mansoor Ahmed
• Dr. Nousheen Mushtaq

Assistant Professors
• Dr. Afaq Ahmed Siddiqui
• Dr. Sohail Hassan
• Dr. Asia Naz
• Mr. Ameer Hassan

Lecturers
• Ms. Rubina Muzaffar
• Ms. Shazia Haider
• Ms. Urooj Nazim

Programs Available
• M. Phil. / Ph.D.

For Further Enquiry
Telephone: 99261300-06 Ext-2203
Website: www.uok.edu.pk

Department of

Pharmaceutics

Introduction
The department covers 24 courses spread over five years of Pharm-D. program. The department is actively involved in pharmaceutical research that covers all aspects of pharmaceutical sciences offering M.Pharm and Ph.D. programs. Till date, the department has produced 69 M. Phil. and 11 Ph.D. scholars in different disciplines of pharmaceutics.

The department of Pharmaceutics has its history as old as the history of the faculty of pharmacy itself. The Faculty of Pharmacy was first founded in 1964 as a department under the faculty of science in University of Karachi by the now known as Father of Pharmacy Professor Dr. S.M.S. Zoha. In the year 1973, in which the status of the department was approved as a faculty with four distinctive departments one of which was the department of pharmaceutics.

Facilities
• Laboratories
• Research Laboratories
• Computer Laboratory
• Seminar Library
Specific Research Areas

- Formulation Development
- Formulation optimization and improvisation
- Pharmaceutical Microbiology
- Novel drug delivery system
- Bio-Pharmaceutics
- Bioavailability
- Physical Pharmacy
- Clinical Pharmacy and Pharmacy Practice

Career Opportunities

The scope of pharmacy all over the world is very promising in which the graduate in pharmacy find himself in a very prestigious and professional status to serve the society in different disciplines of the field as a health care professional. After obtaining graduation degree from the faculty of pharmacy the students have the opportunity to join hospitals where they would be drug experts taking right decisions about the safe use of medicine, in community as one of the beneficial members of the society, in pharmaceutical industries that has the largest proportion of openings in different departments of the industry. Similarly, he could also join governmental jobs where he regulates the drug portfolio and establishes policies regarding the drug usage and regulatory matters, in pharmaceutical journalism, in academia where he would be in a highly prestigious assignment to train and produce more pharmacists. A pharmacist would also find good opportunities in research and development where one can satisfy his eager to participate in pharmaceutical research as a scientist. And that is not all; there are too many job opportunities and career enhancing chances for pharmacist abroad.

Faculty Members

Professors
- Dr. Fouzia Hassan
- Dr. Nighat Razvi (Chairperson)

Associate Professor
- Dr. Muhammad Harris Shoaib

Assistant Professors
- Ms. Shaista Hamid
- Dr. Shahnaz Gauhar

Programs Available

- Pharm-D
- Pharm-D (Deficiency)
- M. Pharm
- M. Phil./Ph.D.

For Further Enquiry
Telephone: 99261300-07
Website: www.uok.edu.pk
Department of **Agriculture & Agribusiness Management**

**Introduction**

The department of Agriculture launched BS-Program in Agriculture in 2004 and acquired the status of the department in 2006. It was renamed as the Department of Agriculture and Agribusiness Management in 2008. The Department offers specializations in agribusiness management, plant protection and plant pathology.

Agribusiness is an important and ever expanding industry in Pakistan. It combines the study of agricultural sciences with the management skills providing an understanding of economic and business principles and their application to Agribusiness.

The program aims to develop a range of personal and transferable skills and critical appreciation of the techniques to assist effective execution of the agribusiness management function.

It cannot be denied that the implementation of proper pest and disease management strategies can be helpful in increasing the crop yield and ultimately boost the economy of the country. The courses offered for specialization in plant pathology or plant protection enable the students to acquire in-depth knowledge of pest and diseases affecting crop, vegetable, fruit and ornamental plants in the country and make them aware of the management strategies to overcome the problem.

**Career Opportunities**

Specialization in Agribusiness management is helpful in getting jobs in farm business related to national and multinational organizations as managers, consultants, supply chain coordinators and accountants. It also provides an opportunity to enter self-employment immediately after graduating, largely within the farming or food sectors.

Students specializing in plant protection or plant pathology have job opportunities in various research organizations like plant protection, PARC, PCSIR, NIAB, NIA, ARI etc. They can also get jobs in plant and pesticide related national and multinational organizations.

**Specific Research Areas**

The department is actively engaged in research related to Entomology, Mycology, Plant Pathology and Agribusiness. Several research students are also enrolled for M. Phil./Ph.D. programs. Faculty members and research students regularly publish research papers in journals of national and international repute.

**Facilities**

The department is well equipped with modern teaching aids. It also has facilities for research on topics related to fields of entomology, mycology, plant pathology and Agribusiness. The department's seminar library has a good collection of books related to agriculture and agribusiness that students can have easy access to.

**Faculty Members**

**Professor**
- Dr. Saleem Shahzad (**Chairman**)

**Lecturers**
- Mr. Muhammad Talha Azeem
- Mr. Syed Rameez Hasan Rizvi

**Programs Available**
- BS
- B.Sc. with specialization in Agribusiness, Management or Plant Protection and Plant Pathology
- M. Phil./Ph.D.
Department of Applied Chemistry & Chemical Technology

Introduction
The department of Applied Chemistry and Chemical Technology was established in 1971. 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 in Pakistan, for instance, fertilizers, refineries, cement, sugar, polymers, pharmaceutics, 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, material engineering, maintenance and environmental engineering, etc. Hence it is hoped that the graduate of this department will meet the needs of the chemical industries of Pakistan and abroad.

Career Opportunities
Excellent job opportunities exist not only in industries in Pakistan, but also in foreign countries.

Facilities
The department has the latest collection of books in its Seminar Library and also provides students with the E-Library facility, Computer Lab and DSL internet accessing. There are state-of-the-art laboratories for undergraduate and graduate level courses.

Faculty Members
Associate Professors
- Dr. Mehdi Hasan Kazmi (Chairman)
- Dr. Riaz Ahmed

Assistant Professors
- Mr. Abdur Rashid
- Dr. M. Ashraf Kamal
- Mrs. Shagufta Afaq
- Mr. Mohib Raza Kazmi
- Dr. Mumtaz Danish Naqvi
- Dr. Farah Siddiq

Lecturers
- Mr. Zahid Farhad
- Ms. Farah Inamullah
- Mrs. Nausheen Yaseen
- Ms. Sadia Khan
- Mr. Rizwan Qasim
- Mr. Zeeshan Akhter
- Mr. Kashif Riaz
- Mrs. Mahwish Mobin Khan
- Mrs. Marium Mudassir
- Ms. Sadia Amber
Programs Available

- B.Sc. (Hons.)
- M. Sc.
- M. Phil./Ph.D.

For Further Enquiry
Telephone: 99261300-06 Ext. 2279
Website: www.dacct.com, www.uok.edu.pk

Department of

Applied Physics

Introduction
The department of Applied Physics was established in 1971. The objective of the department is to enable the students to face challenges of the fast growing technology in the field of Electronics and semiconductors so that they can meet the growing technological needs of the industries in Pakistan in the area of applied physics.

The syllabus is updated to keep abreast with the latest developments in technology. It provides an in-depth understanding of the subject such as analog and digital electronics, industrial electronics, semiconductor devices, communications 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. These devices are used in industrial and medical applications. A comprehensive scheme of study and applications is provided for these subjects.

The laboratory training begins with circuits related to basic analog electronics, industrial electronics, leading to the development of a single board computer based on microcontroller. The students are also trained in 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.

Career Opportunities
A variety of employment opportunities are available to the graduates of applied physics, ranging from public sector organizations to multinational and national industries and research organizations.

Facilities
The department has well-equipped laboratories to teach practical aspect of electronics. In addition to general purpose laboratories where students perform experiments on circuits based on analog and digital electronics, separate laboratories are established for training. These include computer laboratory which is equipped with latest branded computers connected through LAN. Communication laboratory helps train students in microwave and optical fiber communication systems. Students use software and hardware tools such as VHDL, electronic design automation to develop embedded systems. Computer-controlled (CNC), PCB prototyping machine, logic analyzer, spectrometer, and lock-in amplifiers, are available for research in the field of semiconductor.
Introduction
The department of Biochemistry, established in 1962 is the pioneer independent department of Biochemistry in our country. Since its inception, the department has shared the University of Karachi's goals of excellence in research and education. Traditionally known for strength in major areas of molecular biology, genetics, cell biology, biotechnology and bioinformatics, the current faculty is continuing to broaden its representation and reputation in other areas, most notably, Clinical Biochemistry, Environmental Biochemistry, Enzymology, Hematology Immunology, Genomics, Molecular Biophysics, Neurochemistry/ Neuropharmacology, Biotechnology, Nutrition and Proteomics.

Career Opportunities
Excellent career opportunities exist for students acquiring a degree in Biochemistry. Our graduates are working in multinational companies, teaching and research organizations, Pharmaceutical companies, Biomedical companies, Forensic science laboratories, hospital and clinical laboratories and different public and private sector industries.
Graduates can also pursue an M. Phil. or Ph.D. in universities in Pakistan and abroad in areas such as clinical
research, drug development, Nutritional Sciences, Bioinformatics Biomedical Science.

**Specific Research Areas**
Clinical biochemistry; Drug targeting and development; Molecular genetics and genetic engineering; Biotechnology; Biophysics; Bioinformatics; Enzymology; Neuropharmacology; Molecular neurochemistry; Proteomics and Genomics; Nutritional science; Psychopharmacology and Toxicology.; Lipidomics

**Facilities**
Dr. Zain Memorial Library of the department of Biochemistry has the latest collection of books on Biochemistry with over 100 biochemistry related journals in print and/or with on-line access.

**Computing Facilities:**
Numerous research and other student groups operate computing clusters for research needs and coursework.

**Equipment Facilities:**
The department is equipped with cutting edge techniques like PCR, High Performance Liquid Chromatography Column Chromatography Spectrophotometer; Electrophoresis, Flame Photometry, Freeze Drying, Fluorimetry and Ultra centrifugation etc.

**Faculty Members**

**Professors**
- Dr. Nikhat Ahmed Siddiqui (*Chairperson*)
- Dr. Abid Azhar (*Dean*)
- Dr. Viqar Sultana
- Dr. Tabassum Mahboob
- Dr. Tahira Perven
- Dr. Samina Bano
- Dr. Tahira Perven

**Assistant Professors**
- Dr. Siddiqua Jamal
- Dr. Hajra Naz
- Dr. Farhat Batool
- Dr. Shamim A Qureshi
- Dr. Erum Shireen
- Dr. Sajjad Haider
- Dr. Sadaf Naeem
- Ms. Sadia Saleem
- Dr. Syed Faizan Hassan Naqvi
- Dr. Huma Ikram
- Dr. Muhammad Noman Syed
- Dr. Yasmeen Raashid
- Dr. Muhammad Farhan Kamali
- Dr. Asma Khan
- Ms. Beena Hassan
- Ms. Ayesha Khan
- Ms. Fizza Hassan Naqvi

**Programs Available**
- B.Sc. (Hons.)
- M.Sc.
- M. Phil./Ph.D.

For Further Enquiry
Telephone: 9926261300-6 Ext. 2489
Website: [www.uok.edu.pk/faculties/biochemistry](http://www.uok.edu.pk/faculties/biochemistry)
Faculty of Arts

Department of

Biotechnology

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

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.

Career Opportunities
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 impact 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.

The field is further exemplified with the industrial production of enzymes like proteases, amylases, celluloses and lipases, industrial manufacturing plants for milk and milk products, alcohols, organic acids, antibiotics, vitamins, growth promoting factors and monoclonal antibodies.

Faculty Members
Associate Professor
• Dr. Mustafa Kamal (Chairman)

Assistant Professors
• Ms. Syeda Mariam Siddiqa
• Ms. Raheela Rahmat
• Dr. Saif Ullah

Lecturers
• Ms. Shumaila Rashid
• Ms. Erum Hanif
• Ms. Shafaq Aiyaz Hassan
• Ms. Mahnaz Ahmed
• Ms. Ayesha Kamran
• Ms. Shumaila Samad Khan

Programs Available
• B.Sc. (Hons.)
• M. Sc.
• M. Phil./Ph.D.
Department of Botany

Introduction
The department of Botany was established in 1953. The University at that time was located on Chand Bibi Road, near Civil Hospital Karachi. When the University moved to its present premises on 18th January 1960, the department of Botany was initially located in two barracks. The present building of the department of Botany with laboratories, lecture rooms and an auditorium was built in the late 1960s. 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 NGO’s, pharmaceutical and other industries. In the first and second year the students begin by taking Botany as a major subject together with two 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, instead of subsidiary subjects, they are required to study major subjects within the field of Botany. In M.Sc. Final, the students specialize in one of the branches of Botany, which include: Applied Botany, Mycology & Plant Pathology, Plant Physiology, Plant Ecology, Phycology & Marine Botany and Plant Taxonomy.

Specific Research Areas
The department of Botany has developed a productive research and teaching group in plant sciences. Members of the faculty are working in many specialized fields of plant sciences and are endeavouring to enhance our knowledge of the plant world. Following are the specific research areas:
2. Plant Anatomy and plant Tissue Culture
3. Phycology and Marine Botany
4. Mycology, plant pathology and Fungal Biotechnology
5. Plant Physiology
Plant Ecology and Environmental pollution

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.

Facilities
The department has well-equipped laboratories and a vast collection of books and research papers in the seminar library. It also provides facilities to students 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 vast collection of more than 150,000 plant specimens collected from different regions of Pakistan, in addition to a large collection of specimens of algae and fungi.

Faculty Members
Professors
- Dr. Surayya Khatoon
- Dr. Muhammad Javed Zaki (Chairman)
- Dr. Syed Ehtesham ul Haque
- Dr. Aliya Rehman
- Dr. Raiha Qadri
- Dr. Shahnaz Dawar
- Dr. Rubina Abid

Associate Professor
- Dr. Zamin Shaheed Siddiqui

Assistant Professors
- Mrs. Rubina Iqbal
- Ms. Neelofer Hamid
- Dr. Seemi Aziz
- Dr. Sadaf Gul
Introduction
Chemistry is a novel discipline of science. It helps understand the origin of life and also suggests ways to use non-living things for improving the quality of life. In order to train the young generation and to enable them to make this task easier, it is necessary to make the students understand the principles underlying the composition, structure and properties of substances along with the transformation that the substances undergo. It is therefore obvious that chemical orientation cannot be imparted in isolation and that it has to be developed through an amalgamation of physics and biology on one hand, and engineering and applied sciences on the other. The department of Chemistry is actively pursuing this goal. It has a competent faculty, well-equipped laboratories and other infrastructure. The Bachelors and Masters programs in Chemistry are intended to meet the growing needs of competent manpower in Pakistan and that of the international community. The department of Chemistry imparts professional and academic excellence to young people of Pakistan. It caters to different disciplines of chemistry i.e. inorganic, organic, physical and analytical chemistry at B.Sc. and M.Sc. levels.

Career Opportunities
People with M.Sc. or/and B.Sc. degrees in Chemistry have opportunities for employment, especially in the research institutions that are emerging in the country and also in different industries, both within and outside the country. These include: Textile industry; pharmaceutical industry; clinical laboratories; oil refineries; chemical industry; paint industry; cement industry; beverages and food product industries; analytical &instrumental services agencies; polymer industry; iron steel; metallurgy, and cosmetics.

Specific Research Areas
Analytical, Inorganic, Industrial, Organic, Physical, Environmental, Pharmaceutical, Clinical and Polymer Chemistry.

Facilities
The department of Chemistry is equipped with many modern instruments for training the students to pursue challenging careers and research. These include pH/Ion meters, conductivity meters, polarimeters, refract-tometers, potentiometers, electrochemical analyzers, HPLC, atomic absorption spectrometers, UV-Visible spectrophotometers, FTIR Spectrometers, Guoy Balance for magnetic susceptibility measurements, flame photometers, computers, deionizers, analytical analysis, ovens furnaces, centrifuges as well as a substantial stock of glassware and chemicals. In addition, research students can derive benefit from the facilities at the HEJ Research Institute of Chemistry. The facilities include NMR spectroscopy mass spectrometry, CD/ORD spectroscopy and X-Ray crystallography. The Department of Chemistry is constantly trying to upgrade its laboratory and research resources so that its graduates can maintain a competitive edge in the job market. All the classrooms in the department are air-conditioned. The department has a local area network facility through which most scientific journals can be easily accessed.

Faculty Members
Professors
- Dr. Shaikh Sirajuddin Nizami
- Dr. Syed Azhar Ali (Chairman)
- Dr. Majid Mumtaz
- Dr. Zahida Khalid
- Dr. Rahat Sultana

- Ms. Shaista Jabeen
- Dr. Dilshad Waqar
Admissions 2014

Associate Professors
• Dr. Hajra Tahir
• Dr. Nasir Uddin Khan
• Dr. Rehana Saeed
• Dr. Rafia Saeed

Assistant Professors
• Dr. Nasreen Fatima
• Dr. Sumayya Saeed
• Dr. Firdous
• Dr. Itrat Anis
• Dr. Uzma Ashiq

• Dr. Masooda Qadri
• Mr. Muti ur Rehman
• Dr. Shaikh Mohiuddin
• Dr. Rashida Perveen
• Dr. Shazia Nisar
• Dr. Imran Ali Hashmi
• Dr. Naushaba Rafiq
• Dr. Tehseen Ahmed
• Dr. Erum Zahir
• Dr. Syed Nawazish Ali
• Dr. Azhar Siddiqui
• Dr. Munawar Rashid
• Dr. Reifat Ara Jamal
• Dr. Zahida Kareem
• Dr. Humaira Bano
• Dr. Raheela Naz
• Dr. Summayya Masood
• Dr. Zahid Hussain
• Dr. Syed Tariq Ali

Lecturers
• Ms. Hamida Sultan Muhammad
• Ms. Noorin Siraj
• Mr. Mohtashim Hassan Shamsi
• Mr. Agha Arsalan Wasim
• Mr. Mohnsin Ali
• Mr. M. Asad Khan Tanoli
• Ms. Qurat-ul Ain
• Ms. Saba Fazal-ur-Rahman

Programs Available
• B.Sc. (Hons.)
• M.Sc.
• M. Phil./Ph.D.

For Further Enquiry
Telephone: 99261300-6 Ext-2290
Website: www.chemuok.edu.pk
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. The Department began functioning in the academic year 1985-86 by offering a two year degree program, Masters in Computer Science (MCS) and became one of the pioneering institutions imparting quality education of Computer Science and IT in Karachi.

The department soon realized the need to strengthen the discipline of Computer Science by producing quality professional with sound fundamental knowledge. For this purpose, the Department started a four year degree undergraduate B$ program in the year 1996, and a two year postgraduate program MS (Computer Science) as well as Ph.D. (Computer Science).

In 2009, the department moved to a new building with latest equipment and modern infrastructure.
**Career Opportunities**

Excellent career opportunities exist for the graduates of Department of Computer Science. More than 80% of graduates are immediately hired by top ranking software houses and other institutions. Top software houses are in contact with the department and conduct job tests and hire students even before their graduation. We are proud that our graduates are working in top international organizations and there are graduates who become entrepreneur and running their own software houses.

**Facilities**

**Computing Facilities**

The new building of the department of Computer Science (UBIT) is fully equipped with latest technology for students to get hands-on experience on different platforms of both hardware and software fields of computer science. Each lab is equipped with latest high end user computing facilities. The internet facility is available round the clock in all the labs, which enables students and faculty members to keep in touch with the latest trends in academic and the corporate world. The department is continuously upgrading the computing infrastructure according to the market demands. Following labs are functioning in the department.

- Physical Laboratory
- Electronics Laboratory
- Networking Laboratory
- Software Engineering Laboratory
- AI & Soft computing Laboratory
- Database and information system Laboratory
- Graphics and Multimedia Laboratory
- General purpose Laboratory

**Seminar Library**

The department also provides an in-house seminar library facility which contains more than a thousand books on computer science/IT and related disciplines along with IT/CS magazines, international research journals and periodicals.

**Specific Research Areas**

The department has produced seven Ph.Ds during the past few years and over 10 candidates are on their way to the completion of their MS (CS) and Ph.D. (Computer Science) research work. Our research areas include: Artificial Intelligence, Soft Computing, Neural Networks, Advance Database systems (temporal and fuzzy), MIS, Computer Networks Network Security Parallel & Distributed Computing, Natural Language Processing etc.

**Faculty Members**

**Assistant Professors**

- Mr. Badar Sami (In charge)
- Dr. Syed Jamal Husain
- Dr. Nadeem Mahmood
- Dr. M. Sadiq Ali Khan
- Dr. Tahseen Ahmed Jilani
- Mr. Muhammad Saeed
- Mr. Hussain Saleem
- Mr. S. M. Khalid Jamal
- Mr. Syed Asim Ali
- Mr. Farhan Ahmed Siddiqui
- Ms. Humera Tariq

**Lecturers**

- Ms. Erum Shahid
- Mr. Muhammad Sajid
- Mr. Jameel Ahmed
- Mr. M. Naveen Anwar
- Ms. Shaista Rais
- Mr. Taha Bin Niaz
- Ms. Madiha
- Mr. Syed M. Zain Abbas
- Ms. Humaira

**Programs Available**

- BS
- B.Sc. (Computer Science) (BSCS) (Morning/Evening)
- Bachelors of Science (Software Engineering) (BSSE) (Only in the Evening Programme)
- PGD (Evening-admission in June session)
- MCS (Morning/Evening)
- M. Phil./Ph.D.

**For Further Enquiry**

Telephone: 99261300-6 Ext. 2462/3462
Website: www.uok.edu.pk/dcs-ubit
Email: info@uok.edu.pk
Introduction
The subject of environment is multidisciplinary in nature. The solution of environmental and related problems therefore requires the efforts of social scientists, health care personnel, engineers, microbiologist, chemists, Biologists and agriculturists. Medical profession although very much concerned with the health of the community also but it alone can not effectively solve environmental health problems. Civil engineers although taught about the public health engineering courses but the lack the knowledge and expertise for solving the problems of environmental engineering involving the principles of biology, microbiology and chemistry etc.

The institute was established in 1982. This is the oldest and pioneering institute in the field of which is offering M. Phil. and Ph.D. degrees since then. Keeping in view the acute shortage of specialists it has started offering M.Sc. Postgraduate Diploma and Certificate courses since 1996. The institute provides excellent air-conditioned lecture hall, environmental laboratories, library and audiovisual facilities for the students. It is recognized as a technical focal point on Environmental Health Activities of WHO/EMRO and has been organized WHO sponsored Workshops related to various environmental health and pollution problems with the collaboration of the Ministry of Health.

Therefore, there is a need to evolve and develop a course at the post-graduate level, which will involve the elements and fundamental principles of medicine, engineering and science for the solution of environmental problems and issues with a practical approach for solving such problems of developing countries. In other words the proposed M.Sc., degree in Environmental Science will bridge the gap that exists between courses in Community Medicine and Public Health and Environmental Engineering.

Career Opportunities
After completing two years (4 semesters) degree Program of M.Sc. 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). The M.Sc. is the most appropriate and unique post graduate Program for the in-service professionals who have the above mentioned qualified and would like to improve and advance their professional skills. The lectures also will be directed and conducted by the adjunct international faculty especially from North America.

Facilities
The centre is equipped with advanced laboratories, updated libraries and modern equipment that helps in researching on the global issues.

Specific Research Areas
- Global Climate Change
- Climate change impacts in Pakistan
- Capable of designing and developing low cost waste water treatment and disposal systems for small and medium size communities.
- Agriculture sustainability through the use of treated waste water.
- Treatment of water for potable use
- Public health aspects of wastewater treatment, disposal and reuse.
- Wastewater reclamation technology in hot climate for agriculture and fish culture.
- Capable of developing environmental health programs for monitoring and surveillance of water supply and sanitation.
- Industrial pollution control and management.
- Environmental hygiene (food and water hygiene and safety)
- Environmental impact Assessment
- Marine Pollution and control
- Ecological studies
- Biodegradation of hazardous waste

Faculty Members
Professors
- Dr. Tariq Masood Ali Khan (Director)
- Dr. Omm-e-Hani
- Dr. Moazzam Ali Khan

Assistant Professors
- Dr. Zafar Iqbal Shams
- Ms. Suraiya Jabeen

Lecturers
- Mr. Waqar Ahmed
- Ms. Noor Fatima

Programs Available
- B.Sc.(Hons.)
- M.Sc.
- M. Phil./Ph.D.
Research Institutes & Centres
For Further Enquiry
Telephone: 99261300-06, Ext-2305
99261386 (Direct)
Department of

Food Science & Technology

Introduction
The department of Food Science & Technology was established in 1994 to cater to the needs of the fast growing food industries in the country and also to meet the ever growing demand for food scientists and technologists in government, research and educational establishments. Prof. Dr. Rashda Ali was the founder chairperson of the department. Over the years, the department has developed linkages with universities in Germany, UK and U.S.A. The department has also been involved in organizing workshops, seminars, conferences and training courses. Presently it enjoys a very good rapport with both national and multinational food industries of Pakistan.

Career Opportunities
- Food Technologist
- Food Engineer
- Food Analyst
- Production Manager
- Quality Control/Assurance Manager
- Food Safety Inspector
- Food Researcher
- Research and Development Manager

Facilities

Laboratory Facilities
The new building of the department has eight major laboratories equipped with all basic facilities. The laboratories included Food Engineering, Food Chemistry, Food Microbiology, Food Quality, Food Analysis, Food Biochemistry and Post-Harvest, Food Analytical and Computer/I.T. These laboratories are equipped with state-of-the-art sophisticated instruments namely Differential Scanning Calorimeter, Universal Testing Machine, Visco-Amylograph, Bomb Calorimeter, UV Visible and Near Infra Red Spectrophotometers, Polarimeter, Atomic Absorption, Gas and High Performance Liquid Chromatography.

Specific Research Areas
- Post-Harvest lives of fruits and vegetables
- Edible films and coatings
- Modified Starches
- Antioxidants
- Flavonoids

Faculty Members
Professors
- Dr. Muhammad Abid Hasnain (Chairman)
- Dr. Jehan Ara
- Dr. Syed Asad Sayeed

Associate Professor
- Dr. Shahina Naz

Assistant Professors
- Dr. Rahmanullah Siddiqui
- Ms. Faiza Abdur Rab
- Dr. Feroz Alam Jafri
- Dr. Mahmood Azam
- Dr. Tahira Mohsin Ali
- Dr. Muhammad Abdul Haq

Lecturer
- Ms. Ayesha Siddiqui
Department of Mathematical Sciences

Introduction
The department of Mathematics was established in 1956. Prof. Dr. Suleman Kerawala was the Founder Chairman. Many new courses including Applied Abstract Algebra, Biomathematics and Anthromathematics have been introduced to highlight the application of Mathematics in different fields. The mission of the department is to bring life to Mathematics and Mathematics to life. Areas of Pure Mathematics, Applied Mathematics and Interdisciplinary Mathematics are being pursued in teaching and research. At all levels, students are instructed in the rigor and precision characteristics of Mathematical Reasoning. They are facilitated to become acquainted with the elementary tools of Mathematics and the techniques to use them.

Career Opportunities
Our graduates have been employed in the Educational, Financial, Industrial and Commercial Institutes. They can opt for any of the following professions: High School Mathematics Teacher, College Mathematics Professor, Actuary, Software Designer, Biostatistician, Government Lab Researcher, Financial Analyst, Industry Analyst/Engineer, Education Materials Developer, Industry Consultant.

Facilities
The department offers peaceful environment and provides all modern facilities to students. This is the second largest Department of the Faculty of Science, with three-storey building consisting of many rooms, well-equipped auditorium, E-laboratory with free internet facility and E-Library having three thousand books. To keep the students informed and updated with the latest developments in the modern era, department organizes seminars and workshops for faculty members/students and also allow them to participate in such events both within and outside the university.

Specific Research Areas
The faculty Members and students actively participate in local, national and international Mathematical activities and conferences. The Faculty is engaged in research in the following areas:
- Algebra
- Anthromathematics
- Astrodynamics
- Fluid Dynamics
• Mathematical Physics
• Numerical Analysis
• Operational Research
• Relativity and Gravitation

The Ph.D. program facilitates young researchers in getting the experience necessary to do original research in areas of their interest. About Sixty researchers are enrolled in this program.

Faculty Members

Professors
• Dr. Rana Khalid Naeem
• Dr. Syed Arif Kamal (Chairman)
• Dr. Sarwar Jahan Abbasi
• Dr. Syed Anwar Ali Zaidi

Assistant Professors
• Mrs. Naveeda Qamar  Dr. Najeeb Alam Khan
• Mrs. Akhtar Jehan  Mr. Mushtaq Ahmed
• Dr. Khurram Kamran  Mr. Javed Ansari
• Mr. Waseem A. Khan  Ms. Syeda Sadia Zia
• Mr. Waseem A. Ansari  Ms. Saba Naz
• Mr. Tanveer A. Siddiqi  Mr. S. Inayatullah
• Mr. Muhammad Imtiiaz

Lecturers
• Mr. Asif Raza Khan
• Mr. Shahid
• Mr. M. Ayaz
• Mr. Asif Iqbal
• Ms. Asma Rani
• Ms. Hafsa Ather Jafree
• Ms. Hina Zaheer
• Ms. Noor Fatima Siddiqui

Programs Available
• B.A/B.Sc.(Hons.)
• M.A./M.Sc./
• MIBM
• M. Phil./Ph.D.

For Further Enquiry
Telephone: 99261300-6 Ext-2293
Website: http://math.uok.edu.pk
Email: mathematics@uok.edu.pk
Introduction
The department of Microbiology was established in 1957. This was the first and only department of Microbiology, for many years in this country offering undergraduate and postgraduate degrees. Microbiology is a broad discipline with both basic and applied aspects. Therefore, microbiologists must have a good understanding about microbial taxonomy, genetics, immunology and physiology to identify these agents, explore their metabolic potential on commercial levels and to manipulate these organisms for the betterment of humanity. The study of microorganisms and their potential is also necessary for the production of bread, cheese, antibiotics, vaccines, vitamins and many other important products. Microorganisms are involved in causing serious infections in humans, animals and plants. 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 one of the popular departments and a large number of students opt to study Microbiology.

Career opportunities
People with M.Sc. in Microbiology have employment opportunities in the following organizations:
- Pathological/clinical/hospital laboratories
- Food and beverage industry and agriculture
- Pharmaceutical industry
- Biotechnology industry
- KWSB/KMC/R & D organizations
- University/colleges teaching and research
- Epidemiological monitoring programs
- Environmental monitoring and impact assessments

Facilities
Laboratory and Lecture Rooms
The department has 10 laboratories and 3 lecture hall/rooms where theory and practical classes are held. In addition to this, there are 3 media preparation rooms.

Cold Room Facility
The department of Microbiology is the only teaching department which possesses cold room where the research experiment at below ambient temperature can be conducted.

Computer Lab.
The lab with internet facility is available to all students.

Specific Research Areas
Research scholars are working on exceptionally diverse area of microbiology including: various fields in biochemistry, genetics, clinical microbiology, mechanisms of microbial virulence, epidemiological studies, studies on microbial enzymes of industrial importance, biotransformation, studies on bioactivities of microbial metabolites, immunological aspects of diagnosis, molecular aspects of disease diagnosis and microbial control, bacteriocins, bioactivities of natural products, molecular biology of phages, biodiversity & Environment exploration of biotechnological potential of microorganisms and many others.

Faculty Members
Professors
- Mr. Syed Muhammad Khalid
- Dr. Aqeel Ahmed (Chairman)
- Dr. Tasneem Adam Ali
- Dr. Shakeel Ahmed Khan
- Dr. Fasihuddin Ansari

Associate Professors
- Ms. Nayyar Jahan
- Ms. Talat Yasmeen Mujahid

Assistant Professors
- Ms. Nayyar Mehmood
- Ms. Talat Yasmeen Mujahid
- Ms. Ayesha Mehmood
- Mr. M. Sohail

Lecturers
- Ms. Anjum Zehra Naqvi
- Ms. Sadaf Jahangir
- Ms. Sadia Muhammad Saleemullah Khan
- Ms. Sana Ejaz
- Ms. Tasneem Akhter
- Ms. Amna Alam
- Ms. Wajeeha Binte Asad

Programs Available
- B. Sc. (Hons.)
- M. Sc.
- M. Phil./Ph.D.
Introduction

Petroleum Technology program of the University of Karachi was initiated in 1996 in the evening program, while in the morning program it was introduced in 2004. The program aims to meet the future technical and professional requirements in petroleum industry. It is a multi-disciplinary program of the Faculty of Science/Engineering organized in collaboration with petroleum industry.

The program aims to impart theoretical and practical knowledge in upstream and downstream activities of petroleum industry such as chemistry, geology, drilling, exploration, production, reservoir, pipeline, corrosion, natural gas, LPG, refining technologies, environmental impact, health and safety designs, petroleum logistics, marketing and management.

Presently a two year (four semesters) M. Sc. Program of 60 credit hours with 20 courses of 3 credit hours each is being offered.

Career Opportunities

Students obtaining a Master's degree in Petroleum Technology can easily get jobs in Pakistan, middle East and other countries. A Petroleum technologist is required by petroleum industry at every stage i.e. exploration and development of oil and gas fields, transportation and distillation of crude in refineries, distribution and marketing of its products.

Facilities

Internship and training programs are arranged for students in various sectors of oil and gas industries such as oil companies, refineries and services companies, i.e. Pakistan Oilfield Limited, Oil and Gas Development Corporation, National Refinery, Pakistan Refinery, Pak Arab Refinery, Bosicar Refinery, Pakistan State Oil Ltd, Shell Pakistan, EUP Pakistan, Sui Southern Gas Co Ltd, Baker Hughes, Halliburton Ltd, Marathon Construction, Mari Gas, MOL Pakistan, Nuricon, OMV Pakistan etc. This will help in preparing prospective candidates for petroleum industry.

Faculty Members

Professor
- Dr. Majeedullah Quadri (Chairman)

Lecturers
- Mr. Kashif Sadiq
- Engr. Mr. Syed Hasan Abbas Zaidi
- Mr. Syed Ghufran Alam
- Mr. Atif Zafar
Programs Available

- B.Sc. (Hons)
- M.Sc.
- Certificate Course in Petroleum Technology

For Further Enquiry

Telephone: 99261300-6 Ext-2418/2370
Website: www.uok.edu.pk
Email: pt@uok.edu.pk

Department of

Physics

Introduction

The department of Physics is one of the pioneer departments of the University of Karachi. Prof. Dr. Mujtaba Karim was the founder chairman of the department. Since its inception, the department of Physics is actively engaged in imparting quality education in the field of physics and is actively engaged in research activities.

Career Opportunities

There are ample opportunities for employment both in national and international research organizations. The names of few national organizations are: Pakistan Atomic Energy commission, PIEAS, KANUPP, PCS1R, SUPARCO, Pakistan Steel Mills etc. Beside these government organizations and institutes, our graduates also have good employment opportunities in private sector as well.

Facilities

Beside teaching laboratories, the department has a number of other laboratories for research purpose. Below is the list of some facilities:

- Spectroscopy Research Laboratory
- Solid State Research Laboratory
- Condensed Matter Research Laboratory
- Fully equipped Electronics Laboratory
- A well-equipped computer Laboratory
- A Liquid Nitrogen Plant
- Dr. Sheikh Ansar Hussain Seminar Library

Specific Research Areas

The department is engaged in a number of research areas such as:

- Spectroscopy of atoms and molecules
- Material Science
- Environmental Science
- Electronics
- Theoretical Physics
- Space Physics

Faculty Members

Professors

- Dr. M. Altaf Hussain
- Dr. Tehseen Rahim (Chairman)
Admissions 2014

• Dr. Shahid Mehmood
• Dr. Shabana Rizvi

Associate Professor
• Mr. Naseeruddin

Assistant Professors
• Dr. Imran Ahmed Siddiqui
• Dr. Zaheeruddin
• Mr. Syed Zeeshan Abbas
• Dr. Saifuddin Ahmed Jilani
• Dr. Intikhab Ulfat

Lecturers
• Ms. Rabia Najam
• Mr. Asim Aiaz
• Mr. Haiz M Sohail
• Mr. Sheikh M. Zeeshan Iqbal
• Ms. Sadaf Fatima
• Mr. Ommair Ishaque
• Mr. Waqar Ahmed
• Mr. Ibrahim M. Babar
• Ms. Rizwana Siddiqui
• Mr. Kamran-ul-Haq
• Mr. Zahoor Ilahi
• Mr. Imran Ahmed

Programs Available
• B. Sc.(Hons.)
• M. Sc.
• M. Phil./Ph.D.

For Further Enquiry
Telephone: 99261300-6 Ext- 2250
Website: www.uok.cdu.pk

Department of

Physiology

Introduction
The department of Physiology is an important segment of the Faculty of Sciences, University of Karachi and occupies a very prominent place in the modern age of Biosciences, Clinical/Biomedical Sciences and other Applied Biological Sciences. Founded by Prof. Dr. M. H. Qazi, in 1964, the department of Physiology was the first department outside medical colleges to introduce teaching and research programs in basic and experimental physiology at the graduate and postgraduate levels. Currently, the department has 21 faculty members, 17 supporting staff members and more than 1000 students. Several renowned professors are the pioneer faculty members of the department and are presently serving on key posts in various organizations.

Career Opportunities
Physiology is the core of medical research being done all over the world. Dozens of foreign scholarships for advanced studies in Physiology. Physiologists are required in a number of places, like, pharmaceutical industry, health monitoring departments, biosynthetic industry, instrumentations in biomedical sciences, health related organizations, population welfare division, agriculture, livestock and poultry industry, diagnostic laboratories, occupational therapies, physiotherapy centers, nutritional/sports centers, radiological institutions, biotechnology, bioinformatics, bioengineering, synthetic biology, nursing, medical universities, hospitals, diagnostic laboratories, pharmaceutical industry, research and teaching institutions.

**Facilities**

The department has sufficient facilities necessary to run the academic and research activities. Below is the list of all the facilities:

- Well equipped labs for students & researchers;
- Audiovisual aids like overhead projectors, multimedia, camera and television for interactive teaching;
- A well organized Seminar Library with up to date textbooks and references on various disciplines of Physiology;
- Basic & ultimate Power Labs for laboratory experiments & demonstrations;
- Computer facilities are available in all special units for researchers. A separate computer laboratory with 12 computers is available for academic & research activities.
- Internship facilities for students in different organizations are available.

**Specific Research Areas**

A great deal of research at M. Phil. & Ph.D. levels is conducted in different disciplines of Physiology, such as Neuromuscular Physiology, Hematology, Molecular Physiology & Biophysics, Molecular & Clinical Endocrinology and Reproduction and Poultry Physiology, which is being done in collaboration with K&Ns Poultry diagnostic & research Laboratory. Currently, more than 25 research scholars are registered in M. Phil./Ph.D. programs in various disciplines including clinicians from hospitals and medical universities.

Blood disorders; Endocrine/Metabolic & Reproductive abnormalities, especially, Diabetes mellitus, Metabolic Syndrome, Infertility. PCOS changes; Breast Cancer: Reproductive Changes in marine models; Poultry Vaccinology, diseases and molecular studies of disease mechanism; Neuromuscular disorders; Oxidative stress.

**Faculty Members**

**Professor**

- Ms. Qamar Amin (*Chairperson*)

**Assistant Professors**

- Dr. Ruqaiya Hasan
- Ms. Aisha Javed
- Ms. Arifa Savanur
- Dr. Taseer A. Khan
- Mr. Zulfiqar Ahmed
- Ms. Nazish Iqbal
- Ms. Lubna Naz
- Ms. Sadaf Ahmed
- Ms. Ghazala Yasmeen
- Mr. Anwar Ali
- Ms. Ambreen Niazi

**Lecturers**

- Ms. Shama Masroor
- Ms. Sumera Sohail
- Mr. Mudassir H. Rizvi
- Ms. Mehri un Nisa
- Ms. Saima Mushtaq
- Mr. Faizan Mirza
- Ms. Uzma Firdous
- Mr. Muhammad Nisar

**Programs Available**

- B.Sc.(Hons.)
- M.Sc.
- M. Phil./Ph.D.

**For Further Enquiry**

**Telephone:** 99261300-6 Ext-2296  
**Website:** www.uok.edu.pk  
**Email:** physiology@uok.edu.pk
Department of Statistics

Introduction
The department of Statistics 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.

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.

Facilities
The department has a Seminar Library and data bank 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, S-PLUS, R.STATA, EVIEWS, MATHEMATICA, MATLAB, MINITAB, ITSM etc. are available for students and researchers.

Faculty Members
Professors
• Mr. S. Afrozuddin Ahmed
• Dr. Mudassir Uddin (Chairman)

Associate Professors
• Mr. Muhammad Aslam
• Dr. Ehtesham Hussain

Assistant Professors
• Mrs. Rafia Shafi
• Dr. Farah Yasmeen
• Dr. Javed Iqbal
• Ms. Arfa Maqsood
• Ms. Suboohi Safdar
• Dr. Bushra Shamshad
• Ms. Samreen Fatima

Lecturer
• Ms. Sara Azhar

Programs Available
• B.A./B.Sc.(Hons.)
• M.A./M.Sc.
• BS Actuarial Sciences and Risk Management
• M.Sc. Applied Statistics (Evening Program)
• M. Phil./Ph.D.
• Post-Graduate Diploma in Statistics
Faculty of Science
For Further Enquiry
Telephone: 99261300-6 Ext-2298
Website: www.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 of Science. Right from its inception, the department has imparted quality education at B.Sc. and M.Sc. levels. It also provides facilities for post-graduate research leading to M. Phil. and Ph.D. degrees. Presently, almost all the faculty members are Ph.D. degree holders. Two research journals are edited by our faculty members: i) *Wildlife and Natural History* ii) *Pakistan Journal of Entomology* (HEC recognized). We are proud to mention that more than two thousand (2000) research papers by the faculty members of Zoology have been published in national and international research journals. Besides the publication of research papers, our faculty members have published books as well (40 in number).

Career Opportunities
The graduates of zoology get jobs as teachers in universities, colleges and schools, as subject experts in various educational boards. Job opportunities are available in the Department of Agriculture, Agriculture Extension Department, Department of Forestry, Plant Protection, Freshwater Fisheries, Marine Fisheries Department, Fish Processing Industries Coastal Development, Marine Observatories, Environmental Protection Agency (EPA), Fisheries Harbor Authority, Naval Hydrography and Shipping Industries, Wildlife Department, Foods and Resource Economics, Medicine Companies, Salt Aquaculture and Industries, Forestry Departments, Middle East and Far East Countries for aquaculture and industries related to marine resources, Zoological Survey, Zoological Gardens, Safari Parks, Pakistan Council of Scientific and Industrial Research, National Institute of Oceanography, Pakistan Agricultural Research Council, WWF, IUCN, Public and Private sectors pathalogical laboratories, Pakistan Atomic Energy Commission, Entomology section, Pesticide companies and pest control agencies, Pakistan Central Cotton Committee, Government of Pakistan Horticulture Department, Quarantine Department, Armed Forces Pest Control Positions, Hospitals, Companies level pest control position, Govt. Health Department, Malaria Management Department, etc.

Specific Research Areas
The department also gives opportunity for research to the students, who wish to 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 have been successfully completed by the faculty members.

Faculty Members

Professors
- Dr. M. Arshad Azmi (*Chairman*)
- Dr. Nasira Khatoon (BRC)
- Dr. Rehana Yasmeen Farooque
- Dr. Syed Ansar Rizvi
- Dr. Musarrat Yousuf
- Dr. Muhammad Farhanullah Khan
- Dr. Seema Tahir
- Dr. Muhammad Zaheer Khan

Associate Professors
- Mr. M. Atiqullah Khan
- Dr. Rahila Tabassum
- Dr. Farzana Yousuf
- Dr. Muhammad Shoaib
- Dr. Solaha Rahman

Assistant Professors
- Ms. Afshan Jabbar Khan
- Dr. Karim Gabol
- Dr. Sumera Farooq
- Dr. Ghazala Yasmeen
- Mrs. Shakila Parveen
- Ms. Shahina Rao
- Dr. Rizwana A. Ghaffar
- Dr. M. Tariq Rajput

Lecturers
• Ms. Roohi Kanwal
• Ms. Samreen Mirza
• Ms. Atia Batool

Programs Available
• B.Sc.(Hons.)
• M.Sc.
• M. Phil./Ph.D.

For Further Enquiry
Telephone: 9926261300-6 Ext-2299
Website: www.domsku.com/zooology
Email: Zoology.ku@hotmail.com
# TABLE - I

## B.L.I.S, MCS & MBA Program

<table>
<thead>
<tr>
<th>S.No.</th>
<th>Department</th>
<th>No. of Seats</th>
<th>Required Eligibility</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>BUSINESS ADMINISTRATION</td>
<td>50</td>
<td>Graduation with at least 50% marks</td>
</tr>
<tr>
<td></td>
<td>(Admission will be granted on the basis of Aptitude Test)</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Note:</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Minimum qualifying marks in the Test is 50%</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Weightage for preparation of Merit List is:</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Academic Record = 40%</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Aptitude Test = 60%</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2.</td>
<td>LIBRARY &amp; INFORMATION SCIENCE (B.L.I.S)</td>
<td>35</td>
<td>Graduation or equivalent</td>
</tr>
</tbody>
</table>
| 3.    | COMPUTER SCIENCE (MCS) (2 years 4 Semester Program)  | 70           | i) BCS from Institutes affiliated with University of Karachi with minimum 2.5 CGPA  
ii) B.Sc. / B.A. with Mathematics and any two of the following subjects:  
   (Computer Science / Statistics / Physics / Chemistry / Economics)  
iii) B.A./B.Sc./B.Com and Post Graduate Diploma in Computer and Information System / Statistics / Mathematics from University of Karachi. |
<table>
<thead>
<tr>
<th>S.No.</th>
<th>Department</th>
<th>No. of Seats</th>
<th>Required Eligibility</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>AUDIOLOGY &amp; SPEECH PATHOLOGY</td>
<td>35</td>
<td>Intermediate Arts / Science / Commerce</td>
</tr>
<tr>
<td>2.</td>
<td>ECONOMICS</td>
<td>100</td>
<td>'A' level/Intermediate (with Economics) / Intermediate Commerce</td>
</tr>
<tr>
<td></td>
<td></td>
<td>50</td>
<td>Intermediate Science (with Physics, Mathematics or Statistics). (In case of vacant seats, allocation of seats can be interchanged on the basis of merit)</td>
</tr>
<tr>
<td>3.</td>
<td>EDUCATION</td>
<td>25</td>
<td>Intermediate with Education</td>
</tr>
<tr>
<td></td>
<td></td>
<td>15</td>
<td>Intermediate or equivalent</td>
</tr>
<tr>
<td>4.</td>
<td>ENGLISH</td>
<td>50</td>
<td>i) 'A' Level with English</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>ii) Intermediate after O-Level</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>iii) Intermediate with at least 45% marks in Elective English.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>iv) Intermediate with at least 45% marks in Advanced English.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>v) Intermediate with at least 60% marks in English Compulsory. (Admissions will be given according to above order of priority)</td>
</tr>
<tr>
<td>5.</td>
<td>GENERAL HISTORY</td>
<td>25</td>
<td>Intermediate with General History</td>
</tr>
<tr>
<td></td>
<td></td>
<td>65</td>
<td>Intermediate</td>
</tr>
<tr>
<td></td>
<td></td>
<td>10</td>
<td>DAE</td>
</tr>
</tbody>
</table>
## BS / B.A. (Hons.) Program

### Faculty of Arts

<table>
<thead>
<tr>
<th>S.No.</th>
<th>Department</th>
<th>No. of Seats</th>
<th>Required Eligibility</th>
</tr>
</thead>
<tbody>
<tr>
<td>6.</td>
<td>INTERNATIONAL RELATIONS</td>
<td>50</td>
<td>Intermediate Arts with Civics, General History, Economics, Sociology or Logic</td>
</tr>
<tr>
<td></td>
<td></td>
<td>15</td>
<td>Intermediate Science with 1&lt;sup&gt;st&lt;/sup&gt; division</td>
</tr>
<tr>
<td></td>
<td></td>
<td>05</td>
<td>Intermediate Commerce with 1&lt;sup&gt;st&lt;/sup&gt; division</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>(In case of vacant seats, allocation of seats can be interchanged on the basis of merit)</td>
</tr>
<tr>
<td>7.</td>
<td>MASS COMMUNICATION</td>
<td>48</td>
<td>Intermediate (Arts/Science / Commerce / Home Economics) or equivalent</td>
</tr>
<tr>
<td></td>
<td></td>
<td>02</td>
<td>DAE</td>
</tr>
<tr>
<td>8.</td>
<td>PSYCHOLOGY</td>
<td>45</td>
<td>Intermediate or equivalent</td>
</tr>
<tr>
<td>9.</td>
<td>SOCIOLOGY</td>
<td>100</td>
<td>Intermediate or equivalent.</td>
</tr>
<tr>
<td>10.</td>
<td>SPECIAL EDUCATION</td>
<td>50</td>
<td>Intermediate or equivalent.</td>
</tr>
<tr>
<td>11.</td>
<td>URDU</td>
<td>60</td>
<td>Intermediate or equivalent.</td>
</tr>
<tr>
<td>12.</td>
<td>WOMEN STUDIES</td>
<td>50</td>
<td>Intermediate or equivalent.</td>
</tr>
</tbody>
</table>
## BS / B.Sc (Hons) Program
### Faculty of Science

<table>
<thead>
<tr>
<th>S.No.</th>
<th>Department</th>
<th>No. of Seats</th>
<th>Required Eligibility</th>
</tr>
</thead>
</table>
| 1.    | ACTUARIAL SCIENCES & RISK MANAGEMENT (BS 4-year) (Department of Statistics) | 50 | i) Intermediate, H.S.C or equivalent with Mathematics at least 50% Marks  
                          ii) “A” level with Mathematics at least B-Grade (Equivalence certificate would be required) |
| 2.    | AGRICULTURE & AGRIBUSINESS MANAGEMENT (BS 4-year) | 50 | Intermediate Science or equivalent |
| 3.    | APPLIED CHEMISTRY & CHEMICAL TECHNOLOGY | 45 | Intermediate Science (with Mathematics, Physics, and Chemistry) |
|       |            | 05 | DAE (with Chemical Technology) |
| 4.    | APPLIED PHYSICS (with specialization in Electronics) (Admission will be granted on the basis of Aptitude Test) | 40 | i) Intermediate / “A” Level (with Physics and Mathematics)  
                          ii) DAE in (Electronics or Electrical)  
                          Note: Minimum qualifying marks in the Test is 50 %  
                          Weightage for preparation of Merit List is:  
                          Academic Record = 50%  
                          Aptitude Test = 50% |
<p>| 5.    | BIOCHEMISTRY | 65 | Intermediate Science (with Chemistry and Biology) |
| 6.    | BIOTECHNOLOGY | 50 | Intermediate Science Pre-Medical / Pre-Engineering |
| 7.    | BOTANY | 100 | Intermediate Science (With Biology) |</p>
<table>
<thead>
<tr>
<th>S.No.</th>
<th>Department</th>
<th>No. of Seats</th>
<th>Required Eligibility</th>
</tr>
</thead>
<tbody>
<tr>
<td>8.</td>
<td>CHEMISTRY</td>
<td>60</td>
<td>Intermediate Science (with Chemistry)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>05</td>
<td>DAE</td>
</tr>
<tr>
<td>9.</td>
<td>COMPUTER SCIENCE (BSCS / BSSE)</td>
<td>220</td>
<td>Intermediate (with Mathematics) with at least 55% marks.</td>
</tr>
<tr>
<td></td>
<td>(Admission will be granted on the basis of Aptitude Test )</td>
<td>(110 BSCS 110 BSSE)</td>
<td>DAE (Mechanical / Electrical / Electronic / Computer Information Technology) with at least 65% marks.</td>
</tr>
<tr>
<td></td>
<td>Note:</td>
<td></td>
<td>Weightage for preparation of Merit List is:</td>
</tr>
<tr>
<td></td>
<td>Minimum qualifying marks in the Test is 50%</td>
<td></td>
<td>Academic Record = 40%</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Aptitude Test = 60%</td>
</tr>
<tr>
<td>10.</td>
<td>ENVIRONMENTAL STUDIES</td>
<td>50</td>
<td>Intermediate Science or equivalent as approved by the University</td>
</tr>
<tr>
<td>11.</td>
<td>FOOD SCIENCE &amp; TECHNOLOGY (BS 4-Year)</td>
<td>35</td>
<td>Intermediate Science with Pre-Engineering / Pre-Medical</td>
</tr>
<tr>
<td>12.</td>
<td>MATHEMATICAL SCIENCES</td>
<td>200</td>
<td>i) Intermediate (Science / Arts) with Mathematics</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>ii) Intermediate with Certificate in Mathematics from University of Karachi.</td>
</tr>
<tr>
<td>13.</td>
<td>MICROBIOLOGY</td>
<td>50</td>
<td>Intermediate Science (with Biology)</td>
</tr>
<tr>
<td>S.No.</td>
<td>Department</td>
<td>No. of Seats</td>
<td>Required Eligibility</td>
</tr>
<tr>
<td>-------</td>
<td>-------------</td>
<td>--------------</td>
<td>----------------------</td>
</tr>
<tr>
<td>14</td>
<td>PHYSIOLOGY</td>
<td>100</td>
<td>Intermediate Science (with Biology)</td>
</tr>
<tr>
<td>15</td>
<td>PHYSICS</td>
<td>45</td>
<td>Intermediate Science (with Physics and Mathematics)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>05</td>
<td>DAE (Electronics, Mechanical, Electrical, Radio, T.V., Telecommunication, Computer Information Technology)</td>
</tr>
<tr>
<td>16</td>
<td>STATISTICS</td>
<td>50</td>
<td>Intermediate Science/Arts (with Mathematics)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>05</td>
<td>DAE (with Mathematics)</td>
</tr>
<tr>
<td>17</td>
<td>ZOOLOGY</td>
<td>120</td>
<td>Intermediate Science (Biology Group)</td>
</tr>
</tbody>
</table>
# BBA, BPA & BS Commerce Program, Faculty of Management and Administrative Sciences

<table>
<thead>
<tr>
<th>S.No.</th>
<th>Department</th>
<th>No. of Seats</th>
<th>Required Eligibility</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>BUSINESS ADMINISTRATION</td>
<td>50</td>
<td>Intermediate Arts / Science / Commerce (with at least 50% marks)</td>
</tr>
<tr>
<td>2.</td>
<td>COMMERCE (BS 4-Year)</td>
<td>30</td>
<td>Intermediate Commerce</td>
</tr>
<tr>
<td></td>
<td></td>
<td>30</td>
<td>Intermediate Arts / Science</td>
</tr>
<tr>
<td>3.</td>
<td>PUBLIC ADMINISTRATION</td>
<td>60</td>
<td>Intermediate Arts, Science &amp; Commerce</td>
</tr>
<tr>
<td></td>
<td></td>
<td>10</td>
<td>DBA / DAE</td>
</tr>
</tbody>
</table>

# Pharm-D (Deficiency Course) Faculty of Pharmacy

<table>
<thead>
<tr>
<th>S.No.</th>
<th>Department</th>
<th>No. of Seats</th>
<th>Required Eligibility</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>PHARM-D (Deficiency Course)</td>
<td>100</td>
<td>B-Pharm from University of Karachi</td>
</tr>
</tbody>
</table>
### TABLE – III

Diploma Program, Faculty of Arts

<table>
<thead>
<tr>
<th>S.No.</th>
<th>Department</th>
<th>No. of Seats</th>
<th>Required Eligibility</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>LOCAL GOVERNMENT AND ADMINISTRATION (DLG)</td>
<td>30</td>
<td>Graduation or equivalent</td>
</tr>
</tbody>
</table>

### TABLE – IV

Certificate Courses, Faculty of Arts

<table>
<thead>
<tr>
<th>S.No.</th>
<th>Department</th>
<th>No. of Seats</th>
<th>Required Eligibility</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>ARABIC</td>
<td>50</td>
<td>Intermediate or equivalent</td>
</tr>
<tr>
<td>2.</td>
<td>CHILD PSYCHOLOGY</td>
<td>50</td>
<td>Intermediate or equivalent</td>
</tr>
<tr>
<td>3.</td>
<td>HUMAN BEHAVIOR</td>
<td>50</td>
<td>Intermediate or equivalent</td>
</tr>
<tr>
<td>4.</td>
<td>LIBRARY AND INFORMATION SCIENCES (Advance Certificate Course)</td>
<td>30</td>
<td>M.L.I.S (Masters in Library &amp; Information Science) (Only those students who has got M.L.I.S before or in 2007)</td>
</tr>
<tr>
<td>5.</td>
<td>MASS COMMUNICATION</td>
<td>50</td>
<td>Intermediate or equivalent</td>
</tr>
<tr>
<td>6.</td>
<td>PERSIAN LANGUAGE</td>
<td>50</td>
<td>Intermediate or equivalent</td>
</tr>
<tr>
<td>7.</td>
<td>SOCIAL WORK</td>
<td>50</td>
<td>Intermediate or equivalent</td>
</tr>
<tr>
<td>8.</td>
<td>URDU</td>
<td>60</td>
<td>For Foreigners only (students apply through their consultant)</td>
</tr>
</tbody>
</table>
## Certificate Courses, Faculty of Science

<table>
<thead>
<tr>
<th>S.No.</th>
<th>Department</th>
<th>No. of Seats</th>
<th>Required Eligibility</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>MATHEMATICAL SCIENCES</td>
<td>50</td>
<td>Intermediate equivalent or DBA with Mathematics</td>
</tr>
<tr>
<td>2.</td>
<td>PETROLEUM TECHNOLOGY</td>
<td>40</td>
<td>Intermediate Science (Pre-Engineering)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Candidate must have 5 years experience in Petroleum Industry.</td>
</tr>
</tbody>
</table>
PROCEDURE OF ADMISSION FOR SELECTED CANDIDATES

The list of successful candidates shall be displayed at the following places.
   a) Directorate of Evening Program.
   b) Silver Jubilee Gate-1, Main University Road, Karachi.
   c) www.uok.edu.pk

The successful candidates shall contact the department concerned for endorsement of fee vouchers and completion of admission formalities.

The candidates shall be required to pay the prescribed fee given in Table - V. The fee shall be collected at the office of the Director of Evening Program as per schedule given in the beginning of this booklet.

Following documents must be submitted at the time of admission to complete the enrollment requirements.

a) Original marks certificate of the pre-requisite examination passed (not to be returned) and two attested Photostat copies
b) Photocopy of Matric Certificate (Photocopy of the marks sheet shall not be accepted in lieu of Matric Certificate)
   c) Migration certificate (for candidates who have passed the pre-requisite examination from any Board or University other than Karachi)
   d) Attested Photostat copy of the computerized National Identity Card of the applicant. In case the candidate is below 18 years of age, father’s or mother’s Identity Card. (The original I.D shall be returned after verification).
   e) Eight latest Photographs (1” x 1.5”)
   f) Original certificate of Hifz-e-Quran (only for BS candidates).
   g) Any other document as may be required by the University.
   h) If admission formalities are not completed in the prescribed dated, the admission will be cancelled automatically and no claim will be accepted.

**Date and Timings**
   a) Classes shall commence from January, 2014.
   b) Classes in the Evening Program will begin from 3:30 p.m.
   c) The University rules regarding the attendance and promotion from one class to another are the same as applicable to the morning students of the University of Karachi.
   d) **In order to commence teaching, the minimum number of students enrolled in a program shall be:**

   - Certificate and Diploma 30
   - BS 35
   - Masters 35

   **If the minimum number of students do not register by paying the fee in time, the program shall not be initiated and the fee shall be refunded**
IMPORTANT NOTE:-

a) Any admission secured on the basis of fake documents or misinformation shall be cancelled and fee shall be confiscated in favor of University of Karachi at any time. It is to be pointed out that all admissions are provisional and subject to verification of documents.

b) If any candidate feels that his / her name has been inadvertently left even though he / she has secured merit marks and satisfies the other conditions of eligibility should obtain a Claim Form from the office of the Director Evening program on payment of Rs. 500/- (Rupees Five Hundred only) and submit on the date to be announced along with the List of Successful Candidates. If the claim is found to be correct, the admission will be granted to the candidate according to rules and regulations and the cost of the claim form will be refunded.
## TABLE -V

### FEE STRUCTURE

**Admission Fee**

<table>
<thead>
<tr>
<th>Description</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>a) Admission Fees (Shall be Charged at the beginning of each academic year)</td>
<td>Rs. 2,000/-</td>
</tr>
<tr>
<td>b) Enrolment Fee</td>
<td>Rs. 1,000/-</td>
</tr>
<tr>
<td>c) Development Fee</td>
<td>Rs. 2,000/-</td>
</tr>
<tr>
<td>d) Caution Money (Refundable)</td>
<td>Rs. 1,000/-</td>
</tr>
<tr>
<td><strong>TOTAL AMOUNT</strong></td>
<td>Rs. 6,000/-</td>
</tr>
</tbody>
</table>

**Tuition Fee (At the Beginning of Every Semester)**

**MBA / MCS / BS / BLIS / Pharm-D Deficiency & Hons. Program**

<table>
<thead>
<tr>
<th>Course</th>
<th>Fee</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Audiology &amp; Speech Pathology</td>
<td>Rs. 15,000/-</td>
</tr>
<tr>
<td>2. Actuarial Science &amp; Risk Management</td>
<td>Rs. 20,000/-</td>
</tr>
<tr>
<td>3. Agriculture &amp; Agribusiness Management</td>
<td>Rs. 20,000/-</td>
</tr>
<tr>
<td>4. Applied Chemistry &amp; Chemical Technology</td>
<td>Rs. 20,000/-</td>
</tr>
<tr>
<td>5. Applied Physics</td>
<td>Rs. 20,000/-</td>
</tr>
<tr>
<td>6. Biochemistry</td>
<td>Rs. 20,000/-</td>
</tr>
<tr>
<td>7. Biotechnology</td>
<td>Rs. 20,000/-</td>
</tr>
<tr>
<td>8. Botany</td>
<td>Rs. 20,000/-</td>
</tr>
<tr>
<td>9. Business Administration (BBA)</td>
<td>Rs. 27,000/-</td>
</tr>
<tr>
<td>10. Business Administration (MBA)</td>
<td>Rs. 27,000/-</td>
</tr>
<tr>
<td>11. Chemistry</td>
<td>Rs. 20,000/-</td>
</tr>
<tr>
<td>12. Computer Science (BSCS / BSSE/MCS)</td>
<td>Rs. 22,000/-</td>
</tr>
<tr>
<td>13. Commerce (B.Com)</td>
<td>Rs. 15,000/-</td>
</tr>
<tr>
<td>14. Economics</td>
<td>Rs. 15,000/-</td>
</tr>
<tr>
<td>15. Education</td>
<td>Rs. 15,000/-</td>
</tr>
<tr>
<td>16. English</td>
<td>Rs. 15,000/-</td>
</tr>
<tr>
<td>17. Environmental Studies</td>
<td>Rs. 20,000/-</td>
</tr>
<tr>
<td>18. Food Science &amp; Technology</td>
<td>Rs. 20,000/-</td>
</tr>
<tr>
<td>19. General History</td>
<td>Rs. 15,000/-</td>
</tr>
<tr>
<td>20. International Relations</td>
<td>Rs. 15,000/-</td>
</tr>
<tr>
<td>21. Library and Information Sciences (B.L.I.S)</td>
<td>Rs. 15,000/-</td>
</tr>
<tr>
<td>22. Mass Communication</td>
<td>Rs. 19,000/-</td>
</tr>
<tr>
<td>23. Mathematical Sciences</td>
<td>Rs. 20,000/-</td>
</tr>
<tr>
<td>24. Microbiology</td>
<td>Rs. 20,000/-</td>
</tr>
<tr>
<td>25. Pharm-D</td>
<td>Rs. 32,500/-</td>
</tr>
<tr>
<td>26. Pharm-D (Deficiency Course)</td>
<td>Rs. 20,000/-</td>
</tr>
<tr>
<td>27. Physics</td>
<td>Rs. 20,000/-</td>
</tr>
<tr>
<td>28. Physiology</td>
<td>Rs. 20,000/-</td>
</tr>
<tr>
<td>29. Psychology</td>
<td>Rs. 15,000/-</td>
</tr>
<tr>
<td>30. Public Administration (BPA)</td>
<td>Rs. 15,000/-</td>
</tr>
<tr>
<td>31. Sociology</td>
<td>Rs. 15,000/-</td>
</tr>
<tr>
<td>32. Special Education</td>
<td>Rs. 15,000/-</td>
</tr>
<tr>
<td>33. Statistics</td>
<td>Rs. 20,000/-</td>
</tr>
<tr>
<td>34. Urdu</td>
<td>Rs. 15,000/-</td>
</tr>
<tr>
<td>35. Women Studies</td>
<td>Rs. 15,000/-</td>
</tr>
<tr>
<td>36. Zoology</td>
<td>Rs. 20,000/-</td>
</tr>
</tbody>
</table>
**DIPLOMA PROGRAM**

| 1. | Local Government and Administration (DLG) | Rs. 13,000/- |

**CERTIFICATE COURSES**

| 1. Arabic | Rs. 6,000/- |
| 2. Child Psychology | Rs. 6,000/- |
| 3. Human Behavior | Rs. 6,000/- |
| 4. Mathematics | Rs. 6,000/- |
| 5. Library & Information Sciences | Rs. 6,000/- |
| 6. Mass Communication | Rs. 6,000/- |
| 7. Persian | Rs. 6,000/- |
| 8. Petroleum Technology | Rs. 6,000/- |
| 9. Social Work | Rs. 6,000/- |
| 10. Urdu | Rs. 6,000/- |

EXAMINATION FEE FOR ALL STUDENTS IS CHARGED @ RS.200/- PER COURSE

FOR FOREIGN STUDENTS

At the BS / Hons. level, Foreign Students are required to Pay Rs.2,00,000/- per academic year & Examination Fee Rs.200/- Per Course.

**IMPORTANT NOTE (FOR ALL CANDIDATES)**

1. Fee shall be deposited at the “Directorate of Evening Program” in the form of “Pay Order” drawn in favor of “The University of Karachi” as per schedule given at page 4.

2. Fee once deposited is non-refundable under any circumstances.

3. There is no provision for fee concession, installments or scholarships.

4. The cost of fee vouchers is charged @ Rs.20/- at the time of fee submission.
### TABLE – VI

Closing percentages by category and eligibility for B.S/Hons./Pharm-D(Deficiency Course) / BLIS & Certificate Admissions-2013

<table>
<thead>
<tr>
<th>S. #</th>
<th>DEPARTMENT</th>
<th>Dept. Code</th>
<th>CATEGORY</th>
<th>“K”</th>
<th>“S”</th>
<th>“P”</th>
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</table>
Note: The above percentages are given only for guidance and are not applicable to admission for 2014.

Closing Percentages by Category and Eligibility for Test Based Department Admissions 2013

<table>
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<th>DEPARTMENT</th>
<th>Dept. Code</th>
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<td>(OTHER UNIVERSITIES) (5% Seats)</td>
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Note: The above percentages are given only for guidance and are not applicable to admission for this year.
# ACADEMIC CALENDAR

## FIRST SEMESTER – 2014

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<tr>
<td>Teaching</td>
<td>JANUARY 17, 2014 to MAY 23, 2014</td>
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<tr>
<td>Final Examinations</td>
<td>JUNE 3, 2014 to JUNE 20, 2014</td>
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<td>Semester Break</td>
<td>JUNE 23, 2014 to JUNE 30, 2014</td>
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## SECOND SEMESTER – 2014

<table>
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<tr>
<td>Final Examinations</td>
<td>DECEMBER 2, 2014 to DECEMBER 19, 2014</td>
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<tr>
<td>Semester Break</td>
<td>DECEMBER 22, 2014 to DECEMBER 31, 2014</td>
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**Note:**

1. The University of Karachi shall observe all Federal and Provincial gazetted holidays, but examinations shall be held as per schedule.

2. Teaching in the evening program shall remain suspended during the holy month of Ramazan.