



# PROSPECTUS 2015-16

## Bachelor Degree Programs

### Faculty of Life Sciences

- 1). BS. (Bio-Tech/ Bio-Chemistry)
- 2). BS. (Microbiology)

### Faculty of Education and Humanities

- 1). Bachelor in Fine Arts
- 2). Institute of Education & Research

### Faculty of Management Sciences, Business and Information Technology

- 1). BS. (Computers Science)
- 2). BS. (Information Technology)
- 3). B.Com.

### Faculty of Earth and Environmental Sciences

- 1). BS. (Geology)

### Faculty of Pharmacy

- 1). Doctor of Pharmacy (Pharm - D)
- 2). Doctor of Physical Therapy (DPT)
- 3). Bachelor of Eastern Medicine & Surgery (B.E.M.S.)

UNIVERSITY OF BALOCHISTAN

دیت زونئی علیا

جامعہ بلوچستان

University of Balochistan Quetta



# VICE CHANCELLOR'S MESSAGE TO STUDENTS

*Welcome to University of Balochistan, Quetta!*

*You are getting on perhaps the most important and exciting journey of your life with leading mother institution of Balochistan. You will be exploring new areas, discovering new interests, learning new skills and learning to view your surroundings with a new understanding. By the end of this journey, we hope you will know what really motivates and drives you as a person of responsibilities and devotions.*

*The students and faculty are supported by a highly qualified and motivated administrative staff that ensures the application of merit as the only consideration for all decisions. The faculty, students and the staff together constitute the UoB team that strives each day to take this institution to new heights of excellence in academics, research, community service and knowledge exchange. Tolerance, respect for diversity, uncompromising ethics, integrity and respect, together with our loyal principles of unity, faith and discipline constitute the core values of every UoB team member. We come from different regions of the country, from vastly different social divisions, different ethnicities; a true representation of the beautiful assortment of Pakistan, united in our belief in core values. Sports, Art, Drama, Debates and a numerous of other activities, events and functions provide you with an opportunity to grow as a person and demonstrate the values we cherish.*

*UoB has grown to incorporate new disciplines, mostly department of Pharmacy into a full-fledged Faculty with five Departments, Department of Archaeology, planning to introduce new subjects such as Eastern Medicine, Doctorate of Physiotherapy, Institute of Fine Arts, Human Rights Studies and Anthropology. The challenging curriculum has been designed to integrate the diverse areas of knowledge and give you the necessary knowledge and tools to succeed in the world, while pursuing the profession of your choice and growing to be able to address the complex humanitarian, ideological, scientific and emerging challenges of the world. Our job at University of Balochistan is to help you find your passion. Your job, is to follow that passion as far as it takes you. We will be with you every step of the way.*

*Dear students you will always find me and my staff available to solve your problems and you have to share every moment with us*

*May Allah Almighty help and guide us!*

Prof. Dr. Javied Iqbal  
Vice Chancellor



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# UNIVERSITY OF BALOCHISTAN

## **1. Introduction**

- 1.1. Establishment of the University of Balochistan synchronized with the emergence of Balochistan as a province of Pakistan. The University came into being with the promulgation of the University of Balochistan Ordinance 1970. Located in a developing region of a developing country, the University has a challenging frame of reference for its functioning. Balochistan is passing through a process of rapid socio-economic development and needs well qualified and competent scientists, professionals, academicians and administrators. The University is cognizant of this need and prepared to provide meaningful higher education to the youth of the province.
- 1.2. The University is committed to develop and sustain an environment conducive to excellence in teaching, learning, research and spread of knowledge. In keeping with the priorities of higher education, the University offers its resources and talent for enrichment and enhancement of quality of life through its programmes of research.
- 1.3. The University offers graduate, postgraduate, doctoral and advanced programmes of studies in Physical Sciences, Biological and Chemical Sciences, Arts, Humanities, Social Sciences, State Sciences and Professional Disciplines. BS four years programme of studies in certain disciplines of science are also offered by the University. Besides, University faculty and students organize and conduct community services for the well being of the people, provide leadership in all walks of life, develop potential of the students, channelize energies of the youth and strive for reducing the social and cultural differences through knowledge.

## **2. Our Vision**

To be a model public University providing affordable quality, higher education opportunities to develop the potentially rich human resource in Balochistan through knowledge-centered teaching and research, thus advancing the prosperity of our region.

## **3. Our Mission**

- 3.1 Help our students achieve their maximum potential and be equipped for their future careers.
- 3.2 Continue investment in our people, courses, partnerships and facilities to be the leading University in enhancing the student experience.
- 3.3 Undertake and exploit research, create new knowledge which is relevant and thus applied; achieving International Standard in Key Research areas for improving our International ranking.

## **4. Our Values**

The following set of core values inform and sustain all of our activities.

- Putting students first, with teaching and learning as the core business.
- Team work and Synergy
- Excellence in teaching and learning willingly and with integrity.
- Innovation, creativity and professionalism.
- Respect for each other.

## **5. Jurisdiction**

The main objective of the University is to provide facilities of higher education and research to the people of Pakistan in general and Balochistan in particular. The University fulfills the functions of teaching, research, providing affiliation to colleges and of examining body. Forty-four Colleges (Public / Private / Professional) are affiliated with the University.

## **6. Governance**

- 6.1. The Governor of Balochistan is the Chancellor of the University. The University Senate chaired by the Chancellor, is the Supreme Governing/Legislative Body of the University.
- 6.2. The Vice Chancellor is the Chief Executive of the University. He chairs the Syndicate, the Executive Body of the University, and all other Statutory Bodies.

## **7. Administration**

- 7.1 Chancellor
- 7.2 Vice Chancellor
- 7.3 Pro Vice Chancellor
- 7.3. Registrar
- 7.4. Treasurer
- 7.5. Controller of Examinations
- 7.6. Director General (Students Affairs)

## **8. Teaching Faculties**

- 8.1. The University of Balochistan began functioning since March, 1971 with the opening of the Departments of Physics, Chemistry and Geology at the postgraduate level. Gradually, other Departments were introduced in Arts, Science and Humanities. At present, the University has 43 departments, two Institutes and six specialized centers of Higher Studies and Research, one constituent Law College and 44 affiliated colleges including Agriculture College, the Bolan Medical College and the Internationally renowned Command and Staff College Quetta.

## **9. Faculty of Students' Affairs**

- 9.1. Dean Students Affairs very closely associated by DG (S.A) play the Role of Chief arbitrator in all matters concerning the students. He deals with all matters pertaining to academic / non-academic matters of the students of the University.
- 9.2. Role and duties of faculty of Students. The Faculty of Students Affairs performs duties pertaining to academic, financial, extra-curricular and miscellaneous matters in coordination with the Registrar / Heads of Departments / Deans. Its duties are as follows:
  - 9.2.1. **Academic**
    - 9.2.1.1. Admission of students under category B & C.
    - 9.2.1.2. Selection of students for other universities of the country.
    - 9.2.1.3. Migration from one department to other.
    - 9.2.1.4. Re-admission of struck off cases.
    - 9.2.1.5. Arrange meetings with the Students Advisory Council.
    - 9.2.1.6. Cases with regular Rectification Name the Certificates/Degrees seeing issue by the University.

## **10. Programs of Study**

- |       |                                     |         |
|-------|-------------------------------------|---------|
| 10.1. | BS Computer Science (BS-IT) (BS CS) | 4 years |
| 10.2. | BS Microbiology                     | 4 years |
| 10.3. | BS Geology                          | 4 years |
| 10.4. | BS Biotech/Bio Chem                 | 4 years |
| 10.4  | Bechelor Fine Arts                  | 4 years |
| 10.5  | D-Pharm                             | 5 years |
| 10.6  | B.Ed (Hons)                         |         |
| 10.7  | B.Com (Self Finance Program)        | 2 years |

## 11. Number of Seats Available

11.1. The Total number of seats in each Department/Institute/Center/ in each programme of study, including all categories of reserved seats, will be 35 (thirty five) per section. The distribution of seats in each department is as under:-

11.1.1.	<b>Local and Domicile of Balochistan - Category 'A'</b>	<b>30</b>
	Open merit: Balochistan	10% 03
	Open merit Quetta District	15% 04
	Open merit: District other than Quetta	75% 23

**Category "A"** Local / Domiciled Residents of Balochistan. (Applicants will submit their application forms to the respective Teaching Department).

11.1.2. **Personnel Serving in Balochistan - Category "B"**  
(Non-Local & Non Domicile) Daughter/son/Spouse/Brother/Sister.

**Category "B"** Direct dependents (son/daughter/brother/sister/wife/husband) of the Federal Government and Autonomous organizations personnel serving in Balochistan who are non-local/non-domiciled of Balochistan.

**Category "C"** Nominees of AJK/FATA/Afghan Refugees/ Foreign Students/NA/Disabled Persons/Direct Dependents of University Employees/ Officers/ Teachers (Son/Daughter/Spouse/ Brother/Sister).

Applicant's coming under Category "B & C" will have to submit their application forms to the Assistant Registrar (Students Affairs) by the due date (complete in all respects).

### Details of Reserved seats, under category "C":

Sr.No.	Categories	Allocation of Seats	Procedure
1.	Azad Jamu & Kashmir	Arts Faculty: 01 Science Faculty: 01	Applicants will be nominated by the AJK Government.
2.	FATA	Bachelor's Degree Programs: 05	Applications will be entertained through proper channel
3.	Foreign Students	Arts Faculty: 02 Science Faculty: 05	Applications to be submitted to the Economic Affairs Division and the Federal Ministry of Education Government of Pakistan through the relevant Embassy in Pakistan
4.	Afghan Refugees	Arts Faculty: 05 Science Faculty: 05	Applications will be entertained through proper channel (Applicants must possess Computerized NADRA Refugees Card)
5.	N.A. (Norther Area)	Arts Faculty: 01 Science Faculty: 01	Application to be submitted through proper channel.
6.	Direct dependents of University Teachers / Officers / Employees (Son / Daughter / Spouse / Brother / Sister)	All existing discipline Three(03) in each section/program of studies on merit amongst the applications	Applications to be submitted on prescribed Application Form to the Assistant Registrar (SA) as per admission schedule.
7.	Disabled Persons (Balochistan only)	Arts Faculty: 02 Science Faculty: 02	The disability certificate issued by Balochistan Provincial Standing Medical Board (Provincial Health Directorate has to be submitted.

## **12. Entry Test**

- 12.1. The Candidates shall have to qualify the Entry Test which will be conducted by the concern Department, securing 40% marks and appearing in the interview is compulsory for admission. If a candidate fails to appear in the Entry Test and interview on the fixed date and time, he / she will not be considered for admission applied for.

## **13.Determination of Merit for Admission in Graduate Program - Weightage**

13.1.	Matriculation	:	20%
13.2.	Intermediate	:	50%
13.3.	Written Test/ Interview	:	30%

## **14. Admission Policy**

- 14.1. Admissions in all disciplines running bachelor degree programs will be allowed to Local/Domicile of Balochistan (under category-“A”). However, Wards of servants of Federal Government or Autonomous Organizations, who have had their previous education other than Balochistan will be considered for admission under category “B”. Moreover, admissions against reserved seats including Foreign Students will also be entertain under Category “C”.
- 14.2. Candidates who pass the qualifying exam in Bi-annual/supplementary examination 2016 shall not be eligible for admission 2016-17.
- 14.3. Admission to a second or subsequent graduate degree course in the University is not allowed.
- 14.4. No student shall at one time join or continue on the roll of two or more courses of study, leading to two or more degrees in the same or different faculties or institutions.
- 14.5. Admission will be allowed only to those applicants who have passed the qualifying examination at most two years prior to the year of admission i.e Annual 2016/Annual/Bi-Annual 2015. However, in the disciplines where the number of applicants is less than the number of seats available in a department, relaxation of one year i.e Annual/Bi-annual 2014 can also be considered for seeking admission.



## **15. Admission Procedures**

- 15.1. Application Forms for admission can be obtained from Habib Bank Limited, University Branch, Quetta and will be submitted (Complete in all respect in the concern department).
- 15.2. Offices of Teaching Departments shall remain open during office hours to receive admission forms.
- 15.3. Candidates seeking admission shall submit the admission form in duplicate.
- 15.4. Each applicant and his/her father/guardian shall have to sign a declaration that he/she shall abide by all the rules and regulations of the University and he/she shall devote his/her time to studies and **shall not indulge in politics.**

### **Required Documents**

- 15.5. Four copies of recent passport size pictures duly attested.
- 15.6. Two Attested copy of character certificate from the Head of the Institution last attended. Candidates qualifying as private candidate shall produce character certificate from a Gazetted Government Officer (Grade 17 or above). (Two Photocopies)
- 15.7. Attested copy of Provisional Certificate of the last qualifying examination. (Two Photocopies)
- 15.8. Attested copy of the Detailed Marks Sheet of the last qualifying examination. (Two Photocopies)
- 15.9. Attested copy of Local/Domicile Certificate. (Two Photocopies)
- 15.10. Attested copies Matric certificates. (Two Photocopies)
- 15.11. Original documents will be shown at the time of Interview and will be checked by the Chairperson/Admission Committee of the concerned department.
- 15.12. Candidates having qualified from other Boards/Universities shall have to submit, in addition to the above, a migration certificate (in original) from the concerned Board/ University.
- 15.13. Applicants must collect an acknowledgment receipt, for each application, which must be produced at the time of Test/Interview. Process of admission will be completed within prescribed schedule as announced.
- 15.14. The selected candidates will be required to complete the admission formalities by last date announced by the University.
- 15.15. If a candidate fails to make payment of admission dues by last date, his/her seat will stand cancelled.
- 15.16. If a candidate fails to join the department within fifteen days from the date of admission his / her admission will stand cancelled.
- 15.17. List of selected candidates will be displayed on the Notice Board of concerned Department/Institute/Center on the dates announced in the academic calendar. The candidates may check the Notice Board of the respective Department/Institute/Center during admission process.
- 15.18. Candidates will not be informed individually about their provisional admission/withdrawal or cancellation of admission and the University, therefore, will not accept any responsibility in this regard.

## **16. Attendance Requirements**

- 16.1. Attendance of Lectures, Practicals, tutorials and field work, is compulsory for all students.
- 16.2. The name of a student, who remains absent from classes without proper leave for a period of fifteen consecutive days, shall be struck off the rolls of that department.
- 16.3. A student, whose name has been struck off the rolls, may be readmitted for valid reason within two weeks during the same academic year to the same class. This readmission will, however, be allowed by the respective Dean on the recommendation of the Chairperson of the Department. Fee for readmission will be Rs.1000/-. If a student fails to apply for readmission within the stipulated period, then he/she will be given two more weeks to apply readmission to the Academic Committee headed by the Dean Students Affairs. In such a case the readmission fee will be Rs. 2000/-. The Central Admission Committee (CAC) headed by the Pro-Vice Chancellor can allow readmission up to two months (60 days) in such a case the readmission fee will be Rs. 3000/-.
- 16.4. **Each student will be required to complete minimum of 75% of attendance in lectures and practicals to be eligible to appear in examinations that year.**

## **17. Students Code of Conduct-Discipline**

- 17.1. No Student shall:
  - 17.1.1. Do, or propagate, anything repugnant to Islam within and outside the precincts of the University.
  - 17.1.2. Say or do anything which might adversely affect the honour and prestige of Pakistan.
  - 17.1.3. Smoke in the classroom, laboratory, workshop, library and examination hall.
  - 17.1.4. Form or associate himself / herself with an organization / society / club or any other body promoting inciting parochial / linguistic/regional feelings.
  - 17.1.5. Organize or hold any function in the University except in accordance with the prescribed rules/regulations.
  - 17.1.6. Collect money, receive donations or pecuniary assistance for or on behalf of the University or any University Organization except with the written permission of the Vice Chancellor.
  - 17.1.7. Stage, incite, or participate in a walkout, strike or any other form of agitation which might create, or is likely to create, law and order problem for the University and affect, or is likely to affect, its smooth functioning.
  - 17.1.8. Indulge in immoral activities, use indecent language, wear immodest dress, make indecent remarks, jokes or gestures or behave in an improper manner.
  - 17.1.9. Cause disturbance to others.
  - 17.1.10. Disturb the peace and tranquility of the Institution.
  - 17.1.11. Keep or carry weapons, narcotics, immoral or subversive literature and use non-salutary or abusive language or resort to violence against fellow student or employee of the University.
- 17.2. Violation of any of the above will be considered misconduct and liable to disciplinary action.
- 17.3. **Disciplinary Action**
  - 17.3.1. Disciplinary action by the Principal of a Constituent /Affiliated College/Chairperson of the University Teaching Department/ Director of an Institute/Center and the Discipline Committee against the student(s) may be taken in one or more of the following forms depending upon the severity of the offence:
    - 17.3.1.1. A student may be fined.

- 17.3.1.2. A student may be placed on probation for a fixed period. If during the period of probation he/she fails to improve his/her conduct, he/she may be rusticated or expelled.
- 17.3.1.3. A student may be suspended from the rolls of a College / Institute / Center / Department for a period not exceeding two weeks at a time.
- 17.3.2. A student may be rusticated / expelled or asked to withdraw from the College/Institute/Center/Department in the manner mentioned in the regulations relating to rustication, expulsion and withdrawal.

## **19. Regulations Relating to Rustication, Expulsion and Withdrawal**

- 19.1. Rustication, whenever imposed on a student, shall always mean the loss of one academic year so far as his/her Examinations are concerned. The period of absence will, however, depend upon the time of the year when the penalty is imposed.
- 19.2. The Vice Chancellor may, at his discretion, permit to rejoin the class in the same College/Department/Institute/Center at the beginning of the next academic year.
- 19.3. A rusticated student once readmitted and again found creating disturbance/indiscipline, etc. will be expelled from the University.
- 19.4. A student expelled from the University shall not be readmitted into the same University without the approval of the Syndicate. Readmission shall in no case be granted before the expiry of one academic year from the date of expulsion.

## **20. Code of Honor**

Being a student in the University is a matter of privilege, prestige and honour. All students are expected to conduct themselves with honor and dignity. The following Code of Honour enunciating the basic principles of conduct expected of a student should be propagated by the Principals of the Constituent Colleges and the Chairperson/Director of the University Teaching Departments / Institute / Centers:-

- 20.1. All Students must have faith in and respect for the ideology of Pakistan.
- 20.2. All Students must in matters of religion respect the convictions of others.
- 20.3. Every student is expected to:-
  - 20.3.1. Be Loyal to Pakistan;
  - 20.3.2. Obey the Law of the land as well as the rules & regulations of the University;
  - 20.3.3. Maintain law and order as well as the dignity and prestige of the University.
  - 20.3.4. Protect the property of the University;
  - 20.3.5. Show due respect to elders, teachers and outside visitors;
  - 20.3.6. Work hard and co-operate in completing the courses of study within the prescribed period.

## **21. Facilities**

- 21.1. **Central Library** which plays a vital role in the academic life of a University. The fundamental role of the library being educational, it should not be considered as mere store house of books, but as a dynamic instrument of education. The Central Library of the University is organized on these lines. The library collections support not only every course in the curriculum but also include selected stock of general material of books, periodicals, publications, newspapers etc. The total number of books in the Central Library is 150,000. The whole library system is being computerized and online library service will be available through a network after the completion of the computerization process. A large number of International Research Journals are also available on Digital Library provided by Higher Education Commission and research articles of interest can also be downloaded.

- 21.2. **Digital Library** The University of Balochistan has established a digital library to provide researchers, faculty members and students of the University access to the International scholarly literature. The facility is based on electronic (online) delivery system. The Digital Library also provides access to high quality peer-reviewed journals database and articles on a wide range of discipline. The facility could be availed by the faculty members and students of the University on provision of his/her identification card. The facility is restricted to online journals for the University of Balochistan through University of Balochistan website i.e. [www.uob.edu.pk](http://www.uob.edu.pk).
- 21.3. The internet connectivity and link to Digital Library provided by the Information Technology Directorate has access to over 4,000 books and 22,000 online journals. For maximum utilization of Digital Libraries all over the World, the Directorate of Information Technology has established a Computer Lab in the Central Library and ensured its operation during University working hours, so that the students may benefit from it. This all has become possible due to the high speed connectivity of PERN (Pakistan Educational Research Network). The number of Computer Units in the digital library has been increased to 80.
- 21.4. **Computer Laboratories.** Computers have been provided to the Departmental Computer Laboratories. This service is provided to the Central Library and to the Academic Departments/Institutes/Centers and available over long hours. In the Central Labs, PCs are provided, offering a range of standard office software for document creation and presentations. Specialist provision is available to support research and advanced study within the University. Computers in all departments / institutes / centers / sections are connected to the University's main server through Local Area Network and Wide Area Network (LAN/WAN) giving access via the internet to the major information, research and communications networks worldwide.
- 21.5. **Video Conference Center** The University of Balochistan with the help of Higher Education Commission has established a Video Conferencing Center. The main objective of this Video Conference is to enhance student-teacher interaction through distance learning at global-level, bridge the gap of good faculty, meet the shortage of faculty members at the University and ultimately to uplift the standard of education in Balochistan.
- 21.6. **Hostels** There are 15 double storey blocks of hostels on the Campus for male students with a total capacity for 1040 residents, while one block under construction is now complete with a capacity of 260 students. For female students and Lady Teachers, there is a hostel block with 64 rooms to accommodate 210 inmates. The students' hostels have all the facilities e.g. Furniture, Mess, Common Room, T.V. Lounge, Telephone etc. Hostel administration consists of Senior Provost, Provosts, Senior Warden, and one Resident Warden for each hostel.
- 21.7. **Medical Center / Health Care** A Medical Centre for meeting the needs of the community is functioning. It is reasonably equipped, looked after by two doctors (Male and Female) and assisted by qualified staff at the Campus. Complicated cases are referred to the specialists in the Civil Hospital, B.M.C. Complex, C.M.H. and Children Hospital. Ambulance service is also available in case of emergency.
- 21.8. **Bank and Post Office** A branch of Habib Bank and Post Office are available with in the premises of the University.
- 21.9. **Transport** The University of Balochistan operates a fleet of buses which provide Pick and Drop facility to the students. Transport facility is also available for social-work field work and field visits of students of Geology, Botany, Zoology and other departments on need basis.
- 21.10. **Study Tour** Students Study Tours are considered educational as well as part of the University's co-curricular activities. Each student may participate at least once in a study tour arranged by the concerned Teaching Department during his/her stay at the University. Study tours are partly financed by the students and supplemented by the University.

21.11. **Co-Curricular Activities**

21.11.1. **Golden Week.**

21.11.1.1. The University places due emphasis on co-curricular activities to ensure overall grooming of the personality of its students. Co-Curricular activities form an integral part of the University's endeavors to provide its students an opportunity to build up skills and gain experience in so many fields.

21.11.1.2. By encouraging its students to participate in co-curricular activities the University makes a conscious effort to also build and strengthen their confidence required to meet the challenges of practical life effectively.

21.11.1.3. Dramatics, Debate competitions, Art exhibitions, Poetry writing Competitions, Quiz Competitions, Dialogues and Essay Writing Competitions are some of the co-curricular activities that are managed by the University during the Golden Week.

21.11.2. **Sports Week** Special endeavors are made to organize games and sports on the campus. There are well established play grounds for football, cricket, basketball, volleyball and Tennis. The students have been participating in the National, Provincial and Inter- University tournaments and have won many prizes. The University organizes regular activities in a number of sports and games. It also arranges Inter-University sports competitions in Athletics, Football, Hockey, Volley Ball, Cricket, Badminton, Table Tennis, Tug of War, Basket Ball etc. Separate sports facilities exist for girls. The sports activities are looked after by the Director of Sports.

21.12. **Audio Visual Aids** Audio-visual aids are used in the class rooms, seminars and conferences to facilitate the students learning process.

21.13. **Tutorial and Guidance** Tutorial and Guidance service is available to the University students. The Tutors Facilitates the learning process of the students and enable them to make positive use of the educational facilities available in the University. The faculty members provide guidance and counseling to the students in the establishment of their educational and professional goals. During the course of studies, the Tutors keep in touch with the progress and development of the students and help to solve some of the individual psychosocial problems which are likely to obstruct their academic performance.

21.14. **Career Counseling Cell** A Career Counseling Cell exists to guide the students for their future career/jobs. It helps the students to establish and achieve their vocational goals and solve some of their individual queries. It also arranges lectures/presentations by future employers.

**AFFIDAVIT SPECIMEN**

**Category B**

(Balochistan Non-local / Non-domiciled Applicants who are  
Direct dependents of personnel serving in Balochistan  
(Son/Daughter, Brother /Sister, Husband/Wife)

(to be submitted on judicial stamp paper along with attested Photostat/ copies of N.I.C. of the applicant and the deponent)

Applicant: \_\_\_\_\_

Father : \_\_\_\_\_

N.I.C. No of Applicant: \_\_\_\_\_

Address: \_\_\_\_\_

\_\_\_\_\_

The deponent declares on oath / solemn affirmation that the Applicant \_\_\_\_\_ S/O \_\_\_\_\_ seeking admission in the \_\_\_\_\_ Department of University of Balochistan, Quetta is my:

(a) Son/Daughter: (b) Real Brother / Real Sister (C). Husband / Wife

The deponent swears / solemnly affirms that the above said declaration submitted is true and that it conceals nothing and that no part of it is false.

Deponent.

Name. \_\_\_\_\_  
Designation \_\_\_\_\_  
Father. \_\_\_\_\_  
N.I.C. No. \_\_\_\_\_

**CERTIFICATION**

It is certified that Mr. Miss/Mrs. \_\_\_\_\_ S/D/W/O \_\_\_\_\_ is an employee of \_\_\_\_\_ Designation \_\_\_\_\_ and at present serving in the province of Balochistan from \_\_\_\_\_

Attested by:  
Magistrate/Oath Commissioner

Signature  
Head of the Organization  
(Name & Stamp)

Name: \_\_\_\_\_  
Designation: \_\_\_\_\_

Category C

Affidavit Specimen

(To be submitted by the University Teacher / Staff / Employee on  
Judicial stamp paper along with the photostate copies of the  
CNIC of the applicant and the deponent.)

Applicant : \_\_\_\_\_  
Father : \_\_\_\_\_  
CNIC No. : \_\_\_\_\_  
Address : \_\_\_\_\_  
\_\_\_\_\_

I. The deponent declares on oath /solemn affirmation that the applicant \_\_\_\_\_  
seeking admission in the Department of \_\_\_\_\_ University of Balochistan, Quetta is my:

- (a) Son / Daughter                      (b) Real Brother/Real Sister                      (c) Husband/Wife  
II. The deponent swears / solemnly affirms that the abovesaid declaration submitted is true  
and that it conceals nothing and that no part of it is false.

DEPONENT

Name: \_\_\_\_\_

Designation: \_\_\_\_\_

CNIC No.: \_\_\_\_\_

CERTIFICATE

It is certified that Mr. Miss / Mrs. \_\_\_\_\_ S/D/W/O \_\_\_\_\_ is

An employee of \_\_\_\_\_ designation \_\_\_\_\_ and at

present serving in the deptt/ section \_\_\_\_\_ of Balochistan.

**Signature  
Head of Deptt  
( Name & Stamp)**

**Name:** \_\_\_\_\_

**Designation** \_\_\_\_\_

Magistrate / Oath Commissioner

**UNDERTAKING BY THE STUDENT**

(To be submitted on judicial stamp paper)

(As per order of the Supreme Court of Pakistan dated 1st July 92)

I am seeking admission in the University of Balochistan, Quetta do hereby undertake that while studying in the University I will not indulge in any sort of politics. And if ever during my studentship I am found indulging in politics, I may be expelled from the University without any notice.

**Signature of the applicant**

**UNDERTAKING BY THE PARENT / GUARDIAN**

(This undertaking is also to be submitted on Judicial stamp paper separately)

(As per order of the Supreme Court of Pakistan dated 1st July, 92)

I \_\_\_\_\_ Parent/Guardian of \_\_\_\_\_ who is seeking admission in the University of Balochistan, Quetta do hereby undertake that while studying in the University he/she shall not indulge in any sort of politics. And if ever during the studentship is found indulging in politics, he/she can be expelled from the University without any notice.

I also undertake that the findings with regard to his/her indulgence in politics given by the competent authority of the University under his seal and signature shall be final and shall not be questioned except only before the Supreme Court of Pakistan.

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

**Signature of the Parent /Guardian**

**(UNDERTAKING BY THE CANDIDATE)**

(To be signed by the student at the time of admission in the Educational Institutions) I solemnly undertake that:

- I. i. I am not enrolled at present in any of the University teaching Department / Institute / Centers / affiliated College.
  - II. I shall make one person literate so that he she will be able to:
    - ii. Write his / her name.
    - iii. Make Simple calculations.
    - iv. Read and write a simple statement
- OR
- Read and writ Qurani Quaida e.g “Yassarnal Quran”

**Signature of the Candidate.**

**N.B. FOR FURTHER INSTRUCTIONS PLEASE SEE EXTRACTS OF ADMISSION RULES.**



## CODE OF CONDUCT

1. **I solemnly undertake to abide by the following Code of Conduct:**
  - 1.1. That during my stay in the University, I shall diligently apply myself to acquire and develop the knowledge, skills and attitudes necessary for the practice and advancement of the field of study in which I will be enrolled.
  - 1.2. That I shall participate fully and whole-heartedly in sports, games and other co-curricular activities.
  - 1.3. I shall have minimum attendance of 75% in order to qualify for the examinations.
  - 1.4. That I shall maintain identity as a student of the University by wearing the gown or badge as may be prescribed by the University.
  - 1.5. That I shall never use violence or threat of violence or other sort of pressures in resolving any dispute. I shall only use logic, persuasion, petition, appeal, revision, review and other legal and peaceful methods for the settlement of differences and disputes.
  - 1.6. That in any conflict or disputes if any with fellow students or teachers or employees of the University. I shall accept the judgment of the authorities constituted by the University.
  - 1.7. That I accept all provision of the statutes, regulations and rules of the University or the statutes, regulations and rules as may hereafter be framed by the appropriate authorities of the University.
  - 1.8. I will deposit my admission fee after declaration of admission, if I fail to do so, my admission if cancelled, i will have no right to claim of it.
2. **Further I undertake to refrain from:-**
  - 2.1. Doing anything which may cause insult to Head of the Institution, teachers, officers and other staff of the institution.
  - 2.2. Holding a gathering, or meeting, or taking out processions in any part of the University Campus other than areas specified for the purpose, and with due permission.
  - 2.3. Indulging in any kind of unfair means, malpractices in examinations and coercion by any means.
  - 2.4. Allowing or abetting the entry into the premises of the University of expelled students, antisocial elements or other groups whose presence on the campus could cause conflict amongst the students.
  - 2.5. Bringing into the campus, consuming or encouraging consumption of alcoholic products, drugs and narcotics, and indulging in acts of moral turpitude.
  - 2.6. Bringing or keeping any type of weapons within the University premises.
  - 2.7. Using or occupying any room or part of any building of the institution without lawful authority.
  - 2.8. Damaging any University property including buildings, equipments, vehicles etc. in any manner.
  - 2.9. From all such acts and deeds as might bring disgrace and bad name to the University.

**Countersigned by Parents / Guardians)**

**(Signature of the Candidate)**

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## FEE STRUCTURE OF VARIOUS COURSES OF STUDIES FOR 2016 ADMISSION

<p><b>Fine Arts</b> (4 years)</p> <p>Total Dues <b><u>Rs. 58,977</u></b></p>	<p><b><u>1st Year.</u></b></p> <p>i) <u>Adm. Fee.</u> Rs. 1898/-            ii) <u>Tuition Fee.</u> Rs. 4554/-            iii) <u>Security Money</u>  <u>Non Refundable.</u> Rs. 570/-            iv) <u>Identity Card.</u> Rs. 96/-            v) <u>Sports Fee.</u> Rs. 952/-            vi) <u>Transport Fee.</u> Rs. 1580/-            vii) <u>Library Fee.</u> Rs. 570/-            viii) <u>Student Cultural</u>  <u>Activities.</u> Rs. 282/-            ix) <u>Field Work.</u> Rs. 759/-            x) <u>Studio Work.</u> Rs. 3416            xi) <u>Library Fee</u>  <u>50% (Refundable)</u> Rs. 2000/-</p> <p style="text-align: right;"><b>Total: <u>Rs. 16,677/-</u></b></p>	<p><b><u>2nd, 3rd &amp; 4th per Year.</u></b></p> <p>i) <u>Adm. Fee.</u> Rs. 1898/-            ii) <u>Tuition Fee.</u> Rs. 4554/-            iii) <u>Security Money</u>  <u>Non Refundable.</u> -----            iv) <u>Identity Card.</u> Rs. 96/-            v) <u>Student Cultural</u> Rs. 282/-            vi) <u>Sports Fee.</u> Rs. 952/-            vii) <u>Transport Fee.</u> Rs. 1580/-            viii) <u>Library Fee.</u> Rs. 570/-            ix) <u>Field Work.</u> Rs. 759/-            x) <u>Studio Work.</u> Rs. 3416/-            xi) <u>Library Fee</u>  <u>50% (Refundable)</u> -----</p> <p style="text-align: right;"><b>Total: <u>Rs. 14,100/-</u></b></p>
<p><b>Computer Sc:- BS(C.S/IT)</b> Four Year Program</p> <p>Total Dues for 4 Year <b><u>Rs. 131,034/-</u></b></p>	<p><b><u>1st &amp; 2nd Semesters</u></b></p> <p>i) <u>Adm. Fee.</u> Rs. 1898/-            ii) <u>Tuition Fee.</u> Rs. 19,292/-            iii) <u>Identity Card.</u> Rs. 96/-            iv) <u>Student Cultural.</u> Rs. 282/-            v) <u>Sports Fee.</u> Rs. 950/-            vi) <u>Transport Fee.</u> Rs. 1580/-            vii) <u>Computer</u>  <u>Laboratory Fee.</u> Rs. 1265/-            viii) <u>Library Fee.</u> Rs. 570/-            ix) <u>Departmental</u>  <u>Hardware Fee.</u> Rs. 7590/-            x) <u>Library Security</u>  <u>50% (Refundable)</u> Rs. 2000/-            xi) <u>Examination Fee.</u> Rs. 4428/-</p> <p style="text-align: right;"><b>Total: <u>Rs. 39,951/-</u></b></p>	<p><b><u>Per Two Semesters</u></b> <b><u>3rd &amp; 4th/ 5th &amp; 6th/ 7th &amp; 8th</u></b></p> <p>i) <u>Adm. Fee.</u> Rs. 1898/-            ii) <u>Tuition Fee.</u> Rs. 19,292/-            iii) <u>Identity Card.</u> Rs. 96/-            iv) <u>Student Cultural.</u> Rs. 282/-            v) <u>Sports Fee.</u> Rs. 950/-            vi) <u>Transport Fee.</u> Rs. 1580/-            vii) <u>Computer</u>  <u>Laboratory Fee.</u> Rs. 1265/-            viii) <u>Library Fee.</u> Rs. 570/-            ix) <u>Departmental</u>  <u>Hardware Fee.</u> -----            x) <u>Library Security</u>  <u>50% (Refundable)</u> -----            xi) <u>Examination Fee.</u> Rs. 4428/-</p> <p style="text-align: right;"><b>Total: <u>Rs. 30,361/-</u></b></p>
<p><b>B.Ed. (Hons)</b> (8th Semesters) Four Year Program</p> <p>Total Dues for 4 Year <b><u>Rs. 80,352/-</u></b></p>	<p><b><u>1st &amp; 2nd Semester</u></b></p> <p>i) <u>Adm. Fee.</u> Rs. 885/-            ii) <u>Tuition Fee.</u> Rs. 5053/-            iii) <u>Identity Card.</u> Rs. 64/-            iv) <u>Student Cultural.</u> Rs. 506/-            v) <u>Sports Fee.</u> Rs. 1349/-            vi) <u>Transport Fee.</u> Rs. 2359/-            vii) <u>Computer Lab Fee.</u> Rs. 3306/-            viii) <u>Library Fee.</u> Rs. 1012            ix) <u>Library Security</u>  <u>50% (Refundable)</u> Rs. 2000/-            x) <u>Examination Fee.</u> Rs. 5054/-</p> <p style="text-align: right;"><b>Total: <u>Rs. 21,588/-</u></b></p>	<p><b><u>Per Two Semesters</u></b> <b><u>3rd &amp; 4th/ 5th &amp; 6th/ 7th &amp; 8th</u></b></p> <p>i) <u>Adm. Fee.</u> Rs. 885/-            ii) <u>Tuition Fee.</u> Rs. 5053/-            iii) <u>Identity Card.</u> Rs. 64/-            iv) <u>Student Cultural.</u> Rs. 506/-            v) <u>Sports Fee.</u> Rs. 1349/-            vi) <u>Transport Fee.</u> Rs. 2359/-            vii) <u>Computer Lab Fee.</u> Rs. 3306/-            viii) <u>Library Fee.</u> Rs. 1012            ix) <u>Library Security</u>  <u>50% (Refundable)</u> -----            x) <u>Examination Fee.</u> Rs. 5054/-</p> <p style="text-align: right;"><b>Total: <u>Rs. 19,588/-</u></b></p>

<b>Pharm-D</b> (5 years)  <b>Doctor of Physical Therapy (DPT)</b> (5 years)  <b>Bachelor of Eastern Medicine &amp; Surgery (B.E.M.S.)</b> (5 years)  Total Dues for 5 Year <u>Rs. 97,959/-</u>	<u><b>1st Year:</b></u> i) <u>Adm: Fee.</u> Rs. 2420/- ii) <u>Tuition Fee.</u> Rs. 6050/- iii) <u>Security Money</u> (Non Refundable). Rs. 484/- iv) <u>Identity Card.</u> Rs. 72/- v) <u>Student Cultural</u> Rs. 218/- vi) <u>Sports Fee.</u> Rs. 660/- vii) <u>Computer Lab Fee.</u> Rs. 2420/- viii) <u>Transport Fee.</u> Rs. 1210/- ix) <u>Field Work.</u> Rs. 3190/- x) <u>Library Fee.</u> Rs. 433/- xi) <u>Laboratory Fee.</u> Rs. 2420/- xii) <u>Library Security</u> 50% (Refundable) Rs. 2000/-	<u><b>2nd, 3rd, 4th &amp; 5th per Year:</b></u> i) <u>Adm: Fee.</u> Rs. 2420/- ii) <u>Tuition Fee.</u> Rs. 6050/- iii) <u>Security Money</u> (Non Refundable). ---- iv) <u>Identity Card.</u> Rs. 72/- v) <u>Student Cultural</u> Rs. 218/- vi) <u>Sports Fee.</u> Rs. 660/- vii) <u>Computer Lab Fee.</u> Rs. 2420/- viii) <u>Transport Fee.</u> Rs. 1210/- ix) <u>Field Work.</u> Rs. 3190/- x) <u>Library Fee.</u> Rs. 433/- xi) <u>Laboratory Fee.</u> Rs. 2420/- xii) <u>Library Security</u> 50% (Refundable) ----
	<b>Total: Rs. 21,577/-</b>	<b>Total: Rs. 19,093/-</b>

<b>BS Geology</b> Four Year Program  Total Dues for 4 Year <u>Rs. 1,31,098/-</u>	<u><b>1st Year</b></u> I) <u>Adm: Fee.</u> Rs. 2909/- ii) <u>Tuition Fee.</u> Rs. 7969/- iii) <u>Security Money</u> (Non Refundable). Rs. 570/- iv) <u>Identity Card.</u> Rs. 96/- v) <u>Student Cultural Activities.</u> Rs. 285/- vi) <u>Sports Fee.</u> Rs. 1897/- vii) <u>Laboratory Fee.</u> Rs. 1897/- viii) <u>Transport Fee.</u> Rs. 1518/- ix) <u>Field Fee.</u> Rs. 3795/- x) <u>Library Fee.</u> Rs. 570/- xi) <u>Computer Lab:</u> Rs. 4554/- xii) <u>Library Security</u> xiii) <u>50% (Refundable)</u> Rs. 2000/- xiv) <u>Examination Fee</u> Rs. 6642/-	<u><b>2nd, 3rd &amp; 4th Per Year</b></u> I) <u>Adm: Fee.</u> Rs. 2909/- ii) <u>Tuition Fee.</u> Rs. 7969/- iii) <u>Security Money</u> (Non Refundable). ---- iv) <u>Identity Card.</u> Rs. 96/- v) <u>Student Cultural Activities.</u> Rs. 285/- vi) <u>Sports Fee.</u> Rs. 1897/- vii) <u>Laboratory Fee.</u> Rs. 1897/- viii) <u>Transport Fee.</u> Rs. 1518/- ix) <u>Field Fee.</u> Rs. 3795/- x) <u>Library Fee.</u> Rs. 570/- xi) <u>Computer Lab:</u> Rs. 4554/- xii) <u>Library Security</u> xiii) <u>50% (Refundable)</u> ---- xiv) <u>Examination Fee</u> Rs. 6642/-
	<b>Total: Rs. 34,702/-</b>	<b>Total: Rs. 32,132/-</b>

<b>Microbiology</b> BS 4 Year Program  Total Dues for 4 Year <u>Rs. 1,31,098/-</u>	<u><b>1st &amp; 2nd Semester</b></u> I) <u>Adm: Fee.</u> Rs. 2909/- ii) <u>Tuition Fee.</u> Rs. 7969/- iii) <u>Security Money</u> (Non Refundable). Rs. 570/- iv) <u>Identity Card.</u> Rs. 96/- v) <u>Student Cultural Activities.</u> Rs. 285/- vi) <u>Sports Fee.</u> Rs. 1897/- vii) <u>Laboratory Fee.</u> Rs. 1897/- viii) <u>Transport Fee.</u> Rs. 1518/- ix) <u>Field Fee.</u> Rs. 3795/- x) <u>Library Fee.</u> Rs. 570/- xi) <u>Computer Lab:</u> Rs. 4554/- xii) <u>Library Security</u> xiii) <u>50% (Refundable)</u> Rs. 2000/- xiv) <u>Examination Fee</u> Rs. 6642/-	<u><b>Per Two Semesters</b></u> <u><b>3rd &amp; 4th/ 5th &amp; 6th/ 7th &amp; 8th</b></u> I) <u>Adm: Fee.</u> Rs. 2909/- ii) <u>Tuition Fee.</u> Rs. 7969/- iii) <u>Security Money</u> (Non Refundable). ---- iv) <u>Identity Card.</u> Rs. 96/- v) <u>Student Cultural Activities.</u> Rs. 285/- vi) <u>Sports Fee.</u> Rs. 1897/- vii) <u>Laboratory Fee.</u> Rs. 1897/- viii) <u>Transport Fee.</u> Rs. 1518/- ix) <u>Field Fee.</u> Rs. 3795/- x) <u>Library Fee.</u> Rs. 570/- xi) <u>Computer Lab:</u> Rs. 4554/- xii) <u>Library Security</u> xiii) <u>50% (Refundable)</u> ---- xiv) <u>Examination Fee</u> Rs. 6642/-
	<b>Total: Rs. 34,702/-</b>	<b>Total: Rs. 32,132/-</b>

<b>Bio Technology</b> BS 4 Year Program	<b>1st Year</b>		<b>2nd, 3rd &amp; 4th Per Year</b>	
	I) <u>Adm: Fee.</u>	<u>Rs. 2909/-</u>	I) <u>Adm: Fee.</u>	<u>Rs. 2909/-</u>
<b>Bio Chemistry</b> BS 4 Year Program	ii) <u>Tuition Fee.</u>	<u>Rs. 7969/-</u>	ii) <u>Tuition Fee.</u>	<u>Rs. 7969/-</u>
	iii) <u>Security Money (Non Refundable).</u>	<u>Rs. 570/-</u>	iii) <u>Security Money (Non Refundable).</u>	<u>-----</u>
	iv) <u>Identity Card.</u>	<u>Rs. 96/-</u>	iv) <u>Identity Card.</u>	<u>Rs. 96/-</u>
	v) <u>Student Cultural Activities.</u>	<u>Rs. 285/-</u>	v) <u>Student Cultural Activities.</u>	<u>Rs. 285/-</u>
	vi) <u>Sports Fee.</u>	<u>Rs. 1897/-</u>	vi) <u>Sports Fee.</u>	<u>Rs. 1897/-</u>
	vii) <u>Laboratory Fee.</u>	<u>Rs. 1897/-</u>	vii) <u>Laboratory Fee.</u>	<u>Rs. 1897/-</u>
	viii) <u>Transport Fee.</u>	<u>Rs. 1518/-</u>	viii) <u>Transport Fee.</u>	<u>Rs. 1518/-</u>
	ix) <u>Field Fee.</u>	<u>Rs. 3795/-</u>	ix) <u>Field Fee.</u>	<u>Rs. 3795/-</u>
	x) <u>Library Fee.</u>	<u>Rs. 570/-</u>	x) <u>Library Fee.</u>	<u>Rs. 570/-</u>
	xi) <u>Computer Lab:</u>	<u>Rs. 4554/-</u>	xi) <u>Computer Lab:</u>	<u>Rs. 4554/-</u>
	xii) <u>Library Security</u>		xii) <u>Library Security</u>	
	xiii) <u>50% (Refundable)</u>	<u>Rs. 2000/-</u>	xiii) <u>50% (Refundable)</u>	<u>-----</u>
	xiv) <u>Examination Fee</u>	<u>Rs. 6642/-</u>	xiv) <u>Examination Fee</u>	<u>Rs. 6642/-</u>
Total Dues for 4 Year <b><u>Rs. 1,31,098/-</u></b>	<b><u>Total: Rs. 34,702/-</u></b>		<b><u>Total: Rs. 32,132/-</u></b>	

<b>B.com</b> 2 Year Program	<b>1st Year</b>		<b>Final Year</b>	
	I) <u>Adm: Fee.</u>	<u>Rs. 1898/-</u>	I) <u>Adm: Fee.</u>	<u>Rs. 1898/-</u>
Total Dues for 2 Year <b><u>Rs. 21,546/-</u></b>	ii) <u>Tuition Fee.</u>	<u>Rs. 3415/-</u>	ii) <u>Tuition Fee.</u>	<u>Rs. 3415/-</u>
	iii) <u>Security Money (Non Refundable).</u>	<u>Rs. 570/-</u>	iii) <u>Security Money (Non Refundable).</u>	<u>-----</u>
	iv) <u>Identity Card.</u>	<u>Rs. 96/-</u>	iv) <u>Identity Card.</u>	<u>Rs. 96/-</u>
	v) <u>Student Cultural Activities.</u>	<u>Rs. 282/-</u>	v) <u>Student Cultural Activities.</u>	<u>Rs. 282/-</u>
	vi) <u>Sports</u>	<u>Rs. 950/-</u>	vi) <u>Sports</u>	<u>Rs. 950/-</u>
	vii) <u>Transport Fee.</u>	<u>Rs. 1518/-</u>	vii) <u>Transport Fee.</u>	<u>Rs. 1518/-</u>
	viii) <u>Field Fee.</u>	<u>Rs. 759/-</u>	viii) <u>Field Fee.</u>	<u>Rs. 759/-</u>
	ix) <u>Library Fee.</u>	<u>Rs. 570/-</u>	ix) <u>Library Fee.</u>	<u>Rs. 570/-</u>
	x) <u>Library Security</u>		x) <u>Library Security</u>	
	<u>50% (Refundable)</u>	<u>Rs. 2000/-</u>	<u>50% (Refundable)</u>	<u>-----</u>
	<b><u>Total: Rs. 12,058/-</u></b>		<b><u>Total: Rs. 9,488/-</u></b>	

- Note:-** i). Hostel Room Rent FOR Regular Students. Rs. 3000/- per Year.  
ii). Hostel Room Rent for Self Finances @ Rs. 2300/- Per Month, **Rs. 27,600/-** Per Year.

**Note:-** All fee may be deposited after declaration of admission with in the stipulated time. If a candidate failed to deposit the fee his/her admission will stand cancelled and the student at the top of the waiting list will be considered for admission, he/she will be allowed to deposit the fee as prescribed.

As per University Policy admission etc dues will be increased each year. Which is liable to be paid by each student accordingly.

**\*\*\*Fee deposited in previous will be increased 10% in final year.\*\***



## LIFE SCIENCES

Life sciences concerned with the study of living organisms, including biochemistry, and related subjects.

# Faculty of Life Sciences

**BS (Bio Tech/ Bio-Chemistry)** *4 years*

**BS (Microbiology)** *4 years*



# INSTITUTE OF BIOCHEMISTRY

## 1. Introduction

- 1.1. The Institute of Biochemistry, was established in 1986 initially as a research Institute entertaining only M.Phil/ Ph.D students. Later in 1961 M.Sc Program in Biochemistry was started. In 2006, BS (4 years) program in Biochemistry and Biotechnology was also started.
- 1.2. Biochemistry seeks to understand & explain living systems at the molecular level. It is a scientific discipline that finds applications across the biomedical & biological sciences & underpins the biotechnology revolution. It is developing at a rapid pace and has become an exciting and challenging subject.
- 1.3. Biochemistry tries to answer questions that are fundamental to life. What are the molecules that constitute living organisms? How are they made and how is their synthesis regulated? How are they organized into cells? how they interact with each other and how is their synthesis regulated? What is the molecular basis of such processes as genetic inheritance, immunological recognition of self and non-self? What goes wrong to cause human diseases such as cancer, heart attacks, Alzheimer and diabetes and how can such errors be corrected? This knowledge finds practical applications in medicine, agriculture, brewing and biotechnology. Biochemists devise new ways of diagnosing and treating human, animal and plant diseases.

## 2. Objectives

- 2.1. To prepare graduates in modern biological science such as Biochemistry/ Biotechnology who are able to make a valuable beginning in many different careers in their practical life.
- 2.2. To emphasis on research program exploring variety of technically feasible projects having socioeconomic importance, so as to be on the front line in solving our own problems in the area of biological sciences.
- 2.3. To provide educational programs which encourage students to think creatively, constructively and to communicate their ideas effectively.
- 2.4. To foster an environment that promotes learning through quality teaching and research while encouraging mutual respect, tolerance and sensitivity.
- 2.5. To provide qualified and focused professionals in the subject of Bio Chemistry to meet the future needs of educational institutes and industry.
- 2.6. To prepare researchers to meet the needs of industry and research organizations, science and technology.

## 3. Vocational Job Opportunities/Marketability of Graduates

- 3.1. Pharmaceutical /food industries.
- 3.2. Public/Private research Institutes/centers relating to medical and agriculture
- 3.3. Educational Institutions-College/University level.
- 3.4. Balochistan at present has become an active of socio-economic field. It is expanding its infrastructure and encourages development of industry. Numerous Food & Pharmaceutical Industries are recently established in Hub. The PCSIR laboratory in Quetta is currently being expanded creating new job opportunities. In the teaching sector, a number of new Universities and Colleges in Balochistan are offering opportunities to Biochemistry graduates. At National level also, research in Biomedical Sciences is attracting attention.

## 4. Faculty

- 4.1. The Institute has two main functioning units i.e Biochemistry and Biotechnology. In addition to this there are two units i.e Analytical Biochemistry and Bioorganic Chemistry to support the main units. The faculty of the Institute of Biochemistry is highly qualified and experienced. Details are given below.

S.No	Name	Designation	Qualification	Field of Specialization
(a)	(b)	(c)	(d)	(e)
1	Prof. Dr. M. Anwer Panazai	Professor <b>Director</b>	Ph.D. (UOB)	Biochemistry
2	Dr. Muhammad Azam	Associate Professor <i>(on Extra ordinary Leave)</i>	Ph.D. (UK)	Polymers Science
3	Dr. Zahid Mehmood	Assistant Professor	Ph.D. (UOB)	Biochemistry
4	Mr. Khalid Mehmood	Assistant Professor	M.Phil.(UOB)	Biochemistry
5	Mr. M. Sharif Jamali	Lecturer	M.Sc. (QAU)	Biochemistry
6	Dr. Ashif Sajjad	Assistant Professor	Ph.D. (Italy)	Biochemistry
7	Mr. Mohammad Hashim Jan	Lecturer	M.Sc. (UOB)	Biochemistry
8	Dr. Mohammad Ayub	Assistant Professor	Ph.D. (UOB)	Molecular Biology / Biochemistry
9	Mr. Noor Hassan	Lecturer <i>(on Study Leave)</i>	M.Sc. (UOB)	Biochemistry
10	Dr. Samira Khaliq	Lecturer	Ph.D. (UK)	Biochemistry
11	Ms. Shahida Hussain	Lecturer <i>(on Study Leave)</i>	M.Sc (QAU)	Biochemistry
12	Mr. Sharif Hasni	Lecturer <i>(on Study Leave)</i>	M.S Sweden	Biochemistry
13	Mr. Zia-ur-Rehman	Lecturer <i>(on Study Leave)</i>	M.S (AIT) Thailand	Biochemistry
14	Dr. Imran Ali	Assistant Professor	Ph.D. (AIT) Thailand	Biochemistry
15	Mrs. Pari Gul	Lectuer <i>(on Study Leave)</i>	M.Sc (UOB)	Biochemistry
16	Mr. Aamir Rasool	Lecturer <i>(on Study Leave)</i>	M.Sc University of Karachi	Biochemistry

## 5. Programs of Study

### 5.1. BS(4 YEARS) IN BIOCHEMISTRY & BIOTECHNOLOGY:

This comprises 8 semesters (4 years) with a total of 126 credit hours. In the first 4 semesters, Chemistry & Microbiology are taught as minor subjects. In the 4<sup>th</sup> year i.e in semester VII, students are given the choice to either opt for specialization in Biochemistry or Biotechnology.



## 6. Description of Courses

### 6.1. B. S (4 years) in Biochemistry/Biotechnology

#### 6.1.1. First Year

Paper #	Subjects	Marks	Practicals	Marks
Paper-I	Biochemistry	75 Marks	Biochemistry Lab.	25
Paper-II	Chemistry	75 Marks	Chemistry Lab.	25
Paper-III	Microbiology	75 Marks	Microbiology Lab.	25
Paper-IV	English-I (Functional)	50 Marks		
Paper-V	Islamic Studies	50 Marks		
Total:		325 Marks	Total:	75 Marks

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**First year Total Marks: 400**

#### 6.1.2. Second Year.

Paper #	Subjects	Marks	Practicals	Marks
Paper-I	Biochemistry	75 Marks	Biochemistry Lab.	25
Paper-II	Chemistry	75 Marks	Chemistry Lab.	25
Paper-III	Microbiology	75 Marks	Microbiology Lab.	25
Paper-IV	English-II (Functional)	50 Marks		
Paper-V	Pak. Studies	50 Marks		
Total:		325 Marks	Total:	75 Marks

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**Second year Total Marks: 400**

#### 6.1.3. Third Year.

Paper #	Subjects	Marks	Practicals	Marks
Paper-I	Biochemistry-I	75 Marks	Biochemistry Lab.-I	25
Paper-II	Biochemistry-II	75 Marks	Biochemistry Lab.-II	25
Paper-III	Biotechnology	75 Marks	Biotechnology Lab.	25
Paper-IV	Math & Stat. (for Biochemists & Biotechnologist)	50 Marks		
Paper-V	Computer skills (for Biochemists & Biotechnologist)	50 Marks		
Total:		325 Marks	Total:	75 Marks

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**Third year Total Marks: 400**

#### 6.1.4. 4<sup>th</sup> Year.

### SPECIALIZATION (BIOCHEMISTRY)

Paper #	Subjects	Marks
Paper-I	Biochemistry-I	100 Marks
Paper-II	Biochemistry-II	100 Marks
Paper-III	Biochemistry-III	100 Marks
Paper-IV	Lab/Research	100 Marks
Total:		400 Marks

## **SPECIALIZATION (BIOTECHNOLOGY)**

<b>Paper #</b>	<b>Subjects</b>	<b>Marks</b>
Paper-I	Biochemistry-I	100 Marks
Paper-II	Biochemistry-II	100 Marks
Paper-III	Biochemistry-III	100 Marks
Paper-IV	Lab/Research	100 Marks
Total:		400 Marks
<b>Fourth year Total Marks : 400</b>		

### **7. Eligibility Criteria for Admission**

#### **7.1. BS (4 years)**

**7.1.1.** F.Sc. (Pre- Medical) / A- Levels (with Chemistry 2<sup>ND</sup> Division & Biology) Written test and interview to be qualified with 45% marks.(20% test + 10% Interview + 70% Marks, Age limit is of last course taken)

### **8 FACILITIES:**

Well-equipped, purpose built laboratories. Major equipment in the Institute include, High Performance liquid Chromatography(HPLC); Gas Liquid Chromatography (GLC); Scintillation Counter; Electrophoresis Units; Centrifuges; Spectrophotometers; Furnaces; Autoclaves; Laminar Flow hoods etc etc.

**8.1 Internet Facility.** Internet net facility is available in the laboratories.

**8.2 Computer Laboratory.** A Computer laboratory equipped with 25 Pentium 4 units connected to the inter net is available.

**8.3 Teaching Labs:** Three well equipped and modern labs., along with supporting staff are available for conducting practicals for BS and M.Sc program.

**8.4 Research Labs.** Four newly constructed labs., with all modern facilities and a central lab., with many modern and up to date research facilities are available for M.Phil / Ph.D research.

**8.5 Departmental Library.** A newly constructed departmental library with approximately 3000 books and scientific journals available for the students.

### **9 ACHIEVEMENTS :**

**.9.1** Our excellence in both teaching and research has been recognized by the quality assurance and the research assessment exercise by the Pakistan Council for Science and Technology & HEC.

### **10 FUTURE PLANS:**

**10.1** The Institute is following its 15 years vision plan, whereby this Institute will be strengthened and equipped so that it turns into a full fledged School of Biological Sciences with established setups for:

10.1.1 Biochemistry & Molecular Biology

10.1.2 Biotechnology and Bioinformatics

10.1.3 Biochemical Parasitology

10.1.4 Drugs Development

11.1.5 Clinical Biochemistry.

11.1.6 To achieve this, we have already embarked upon the strengthening of our faculty and in-service training of our teachers.

# DEPARTMENT OF MICROBIOLOGY

## **1. Introduction**

- 1.1. Microbiology is the study of microorganisms; include Bacteria, Fungi, Viruses, Algae and Protozoa etc.(both useful and harmful for human beings, Plants and animals etc) through applying different scientific techniques, microorganisms and microbial enzymes can be used in industrial processes to carry out reactions that are not economically feasible by chemical means. Microbiology offers the possibility of major improvements in the way medicines are developed and manufactured.
- 1.2. Microbiologists are employed principally in health care (animal and Human beings), fine chemicals, brewing & distilling, food manufacturing, safety and food related industries, where they are involved in research and development, in process design & control, in management and in quality control. Therefore, various disciplines of Microbiology are prime choice of men and women, mainly because of its laboratory-based activities.
- 1.3. The Department of Microbiology was established in May 2006 and is aimed at the production of marketable and qualified product capable of finding solution / remedies against emerging and re-emerging diseases, production of different vaccines / antibiotics / enzymes, products development, functional food, waste management, bioremediation, bioprocessing and preservation of different foods etc. through research and development.
- 1.4. The department is currently offering B.S Microbiology, M.Sc Microbiology, M.Phil/M.S Microbiology and Ph.D Microbiology degree programs. In the presence of qualified PhD faculty the department is offering research in diversified areas of Microbiology.

## **2. Objectives**

- 2.1. To foster an environment that promotes learning through quality teaching and research while encouraging mutual respect, tolerance and sensitivity.
- 2.2. To provide qualified and focused professionals in the field of Microbiology to meet the future needs of educational institutes, other government organizations and industries.
- 2.3. To prepare researchers to meet the needs of society, industry and research organizations, science and technology.
- 2.4. To develop the department as a nursery for the advanced level degree programs at other institutions particularly in the province of Balochistan.
- 2.5. To enhance higher education in the field of applied biology and microbiological sciences.

## **3. Vocational Job Opportunities / Marketability of Graduates**

- 3.1. Food packaging and processing industry.
- 3.2. Quality control operations of safe drinking water.
- 3.3. Public Health Institutions.
- 3.4. Pharmaceutical Industry.
- 3.5. Diagnostic Laboratory Technicians / Experts.
- 3.6. Biological production industry.
- 3.7. Biotechnological interventions in environmental sciences like Bioremediation.
- 3.8. Food safety authorities.
- 3.9. Environmental protection agency.
- 3.10. Agriculture research organizations.

## **4. Faculty**

4.1 The details of faculty members is as under:

<b>S.No.</b>	<b>Name</b>	<b>Designation</b>	<b>Qualification</b>	<b>Field of Specialization</b>
1	Dr. Abdul Malik Tareen	Assistant Professor / Chairperson	Ph.D	Microbiology
2	Mr. Abdul Wadood	Assistant Professor	M.Phil	Microbiology
4	Mr. M. Khanzeb (on Leave)	Lecturer	M.Sc.	Biochemistry
5	Mr. Ali Akbar	Assistant Professor	Ph.D.	Microbiology
6	Mr. Shabir Ahmad Khan	Lecturer	Phil	Microbiology
7	Dr. KaleemUllah Mandokhail	Assistant Professor	P.hD	Microbiology
8	Mr. Imran Nawaz Bugti (on Leave)	Lecturer	MS	Biotechnology
9	Dr. Fazal-ur-Rehman	Assistant Professor	Ph. D	Microbiology
10	Mr. Mumtaz Ali	Assistant Professor	M.Phil	Microbiology
11	Mr. Mohammad Yasir (on Leave)	Lecturer	M.Phil	Microbiology
12	Ms. HasinaWali (on Leave)	Lecturer	M.Sc	Microbiology
14	Ms. Rozina Rashid	Lecturer	M.Sc	Microbiology
15	Mr. Abdul Manan (on Leave)	Lecturer	M.S	Biotechnology

## **5. Programs of Study**

5.1. 5.2.1. **BS (4 years)**  
(eligibility)

5.2.2. Students (Male/Female) with at least 2nd division in F.Sc (Pre-Medical) are eligible to apply for BS program under the semester system.

5.2.3. The minimum qualifying CGPA for BS degree is 2.0. Whenever students CGPA decreases from 2.0, he/she will be on probation for one semester. Whereas the student will be dropout from the roll of university if her/his CGPA decreases from 1.5 at any stage during the period of study.

## **6. Description of Courses**

### **6.2 MSc-4 semesters Program**

#### **Semester I**

English-I  
Pakistan Studies  
Mathematics-I  
Microbiology-I  
Human Physiology-I  
Biochemistry-I

#### **Semester II**

English-II  
Islamic Studies  
Mathematics-II  
Microbiology-II  
Human Physiology-II  
Biochemistry-II

### Semester III

English-III  
Sociology  
Computer Applications  
Microbiology-III  
General Immunology  
Cell Biology-I

### Semester V

Microbial Anatomy & Physiology  
Bacterial Genetics  
Clinical Bacteriology  
Mycology  
Soil Microbiology

### Semester VII

Introductory Microbial Technology  
Plant Microbiology  
Research Methodology & Instrumentation  
Food & Dairy Microbiology  
Genetic Engineering

### Semester IV

English-IV (Communication Skills)  
Environmental Current Issues  
Biostatistics  
Microbial Taxonomy  
Cell Biology-II  
Marine/Fresh Water Microbiology

### Semester VI

General Virology  
Epidemiology  
Environmental Biotechnology  
Molecular Mechanisms of Antimicrobial Drugs  
Cell & Tissue Culture Technology

### Semester VIII

Biotechnology  
Medical Virology  
Mini Research Project  
Optional Subject\*

## 7. Facilities

- 7.1. **Teaching Laboratories:** - A laboratory has been established at the Department of Microbiology to teach basic techniques in bacteriology, immunology virology, hematology and mycology. The laboratories of the Department Zoology are being shared for teaching different microbiological techniques, where desired equipment and other required facilities are available.
- 7.2. **Research Laboratories:** - The research laboratories of CASVAB are being utilized for the research projects till the establishment of full-fledged research laboratories with required facilities become available at the Department of Microbiology.
  - 7.2.1. **Research is carried out in the fields/area of:-**
    - Bacteriology
    - Virology
    - Mycology
    - Immunology
    - Molecular Biology
    - Public Health problems
    - Disease Diagnosis (Viral, Bacterial, Fungal & Protozoan)
    - Biological Product (vaccines etc) production
    - Serology & modern diagnostic/ research techniques
    - Food preservation techniques
    - Drugs efficacy against diseases.
- 7.3. **Computer Laboratory:-**The central computer laboratory of the University is located in the department of Physics and could also be used by research scholars/ teachers of other department. An independent computer laboratory has also been established at the Department where the students are also allowed to avail the facility to acquaint with latest available knowledge through internet facility.

- 7.3 **Department Library:-** A department library has been established and about 100 books on different topic of basis microbiology subjects are available for the students. Purchase of relevant books is in progress. Facility of Central Library has also been extended to the students, to increase their desired knowledge. Further, the library of CASVAB has all the relevant text/reference books and laboratory manual concerning to the subject which are also made available for the students enrolled at the Department of Microbiology.
- 7.4 **Internet Facility:-** 10 Computers along with internet facility are available at the Department and students are allowed to use the internet after university timings.
- 7.5 **Journals and Articles:-** A large number of international research journals and articles are also available on Digital Library provided by here Higher Education Commission and facility has been extended to the students for downloading research articles etc.
- 7.7 **Multimedia and overhead Projector Facility:** - For teaching subjects on modern lines facility of Overhead project is available at the department.



## PHARMACY

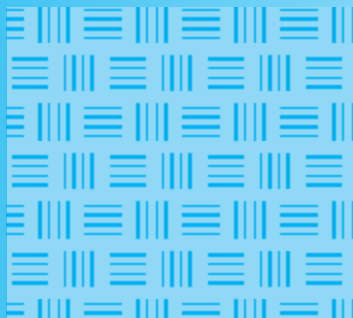
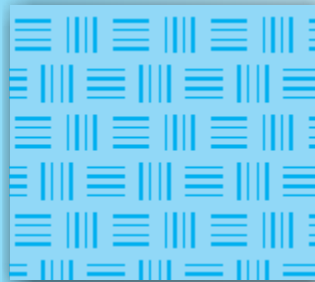
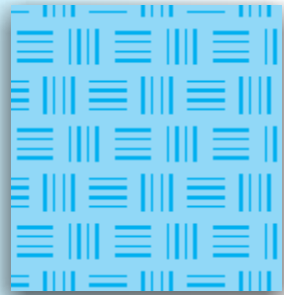
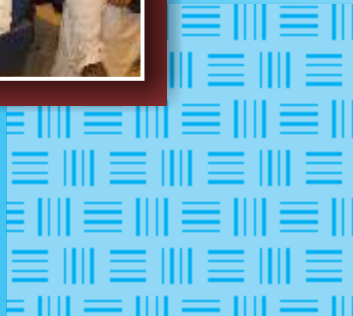
The science or practice of the preparation and dispensing of medicinal drugs.

## Faculty of Pharmacy

Doctor of Pharmacy (Pharm-D) 5 years

Doctor of Physical Therapy (DPT) 5 years

Bachelor of Eastern Medicine & Surgery (B.E.M.S) 5 years





# DOCTOR OF PHARMACY (PHARM.D)

## 1. AIMS & OBJECTIVES OF THE PHARM. D PROGRAMME.

The aims and objectives of Doctor of Pharmacy (Pharm.D.) curriculum are to prepare graduates who will have the capacity, up to date knowledge, strong ethical values, behavior, communication, writing and social skills that will enable them to pursue careers in:

1. Pharmaceutical care in health systems and community environment where appropriate medication usage and patients safety is paramount.
2. Pharmaceutical industry and its quality systems.
3. Academia, research and development.

### **AIMS:**

To prepare pharmacy graduates whose scientific knowledge and skills enable them to work with the pace to ensure the quality in the design, manufacture, distribution and safe and effective use of pharmaceuticals in the society and clinical setting.

## 2. OBJECTIVES

1. To keep pace with the advancements in the modern sciences.
2. To prepare the students to fulfill the industrial needs and they should be well versed with the basic medical and pharmaceutical sciences in order to prepare a dosage regimen for an individual patient.
3. Community pharmacy practice should be comprehensive.
4. Internship in various disciplines of Pharmacy should be implemented.
5. Update the syllabi of the Pharmacy keeping in view the current proposals, requirements and the Needs of the profession.
6. To make our graduates more skillful, competitive and knowledgeable both practically and theoretically.
7. To cater the local and international pharmacy needs.
8. Uniformity in the curriculum of Pharmacy at national level.
9. Credit hours should be harmonized i.e. practical and theory credit hours.
10. To make a health care practitioner who is expert in the use of medicine in all practical fields and are capable of disease state management specially to improve public health at large.
11. Upon graduation, the graduates should have the capacity, knowledge and capability to undertake career in;
  - a) Enhance patient safety to safe medication usage in community and health care systems.
  - b) To work in the pharmaceutical industry and its quality system.
  - c) To engage in academics and research i.e. Practice and Academics.
  - d) To prepare students as good human beings in serving the community i.e. ethics, communication skills, writing skills, behavior etc.
  - e) After graduation, he should become a member of health care team.
  - f) To help the stakeholders of pharmacy about the implications of WTO and TRIPS.
12. The syllabi should be more practical rather theoretical.
13. To include new things regarding OTC Pharmacy (Patient Pharmacist interaction).
14. To prepare pharmacy graduates for better pharmacy practice in the areas including clinical pharmacy, community pharmacy, hospital pharmacy and industrial pharmacy.
15. To add further in the curriculum clinical oriented areas as per demand of Pharm.D. degree.
16. To update the current syllabi according to the needs of the national and international demand.

17. To develop graduates capable of catering the needs of national and international health organizations or authorities to help adapt the paradigm shift in the health care system.
18. To bring uniformity in the contents of the syllabi in line with international trends/ international imparting Pharm.D education.
19. To produce the graduates to meet the challenges of 21st century of health care problems.

### **FACULTY OF PHARMACY**

The faculty will comprise of the following departments with relevant subjects;

1. DEPARTMENT OF PHARMACEUTICS:

- \* Pharmaceutics-I (Physical Pharmacy)
- \* Pharmaceutics-II (Dosage Forms Science)
- \* Pharmaceutics-III (Pharmaceutical Microbiology & Immunology)
- \* Pharmaceutics-IV (Industrial Pharmacy)
- \* Pharmaceutics-V (Biopharmaceutics and Pharmacokinetics)
- \* Pharmaceutics-VI (Pharmaceutical Quality Management)
- \* Pharmaceutics-VII (Pharmaceutical Technology)

2. DEPARTMENT OF PHARMACEUTICAL CHEMISTRY:

- \* Pharmaceutical Chemistry-I (Organic Chemistry)
- \* Pharmaceutical Chemistry-II (Biochemistry)
- \* Pharmaceutical Chemistry-III (Pharmaceutical Analysis)
- \* Pharmaceutical Chemistry-IV (Medicinal Chemistry)

3. DEPARTMENT OF PHARMACOGNOSY:

- \* Pharmacognosy-I (Basic)
- \* Pharmacognosy-II (Advanced)

4. DEPARTMENT OF PHARMACOLOGY:

- \* Physiology
- \* Anatomy & Histology
- \* Pathology
- \* Pharmacology and Therapeutics-I (Basic)
- \* Pharmacology and Therapeutics-II (Advanced)

5. DEPARTMENT OF PHARMACY PRACTICE:

- \* Pharmacy Practice-I (Pharmaceutical Mathematics and Biostatistics)
- \* Pharmacy Practice-II (Dispensing, Community, Social & Administrative Pharmacy)
- \* Pharmacy Practice-III (Computer and its Applications in Pharmacy)
- \* Pharmacy Practice-IV (Hospital Pharmacy)
- \* Pharmacy Practice-V (Clinical Pharmacy-I)
- \* Pharmacy Practice-VI (Clinical Pharmacy-II)
- \* Pharmacy Practice-VII (Forensic Pharmacy)
- \* Pharmacy Practice-VIII (Pharmaceutical Management & Marketing)

## Scheme of Courses for Pharm.D. (Five Year Course)

### 1st Professional Pharm.D.

1st Semester			2nd Semester		
Course No.	Subject	Cr. Hr.	Course No.	Subject	Cr. Hr.
ENG 300	English-A (Functional English)	2	ENG 301	English-B (Communication & Writing skills)	4
PHARM 310	Pharmaceutics-IA (Physical Pharmacy)	3+1	PHARM 315	Pharmaceutics-IB (Physical Pharmacy)	3+1
PHARM 311	Pharmaceutical Chemistry-IA (Organic)	3+1	PHARM 316	Pharmaceutical Chemistry-IB (Organic)	3+1
PHARM 312	Pharmaceutical Chemistry-IIA	3+1	PHARM 317	Pharmaceutical Chemistry-IB (Biochemistry)	3+1
PHARM 313	Physiology-A	3+1	PHARM 318	Physiology-B	3+1
PHARM 314	Anatomy & Histology	3+1			
Total Cr.		22	Total Cr.		22

### 2nd Professional Pharm.D.

1st Semester			2nd Semester		
Course No.	Subject	Cr. Hr.	Course No.	Subject	Cr. Hr.
IS 402	Islamic Studies	3	PS 403	Pakistan Studies	2
PHARM 410	Pharmaceutics-IIA (Dosage Form Science)	3+1	PHARM 415	Pharmaceutics-IIB (Dosage Form Science)	3+1
PHARM 411	Pharmaceutics-IIIA Pharmaceutical Microbiology & Immunology)	3+1	PHARM 416	Pharmaceutics-IIIB Microbiology & Immunology	3+1
PHARM 412	Pharmacology and Therapeutics-IA	3+1	PHARM 417	Pharmacology and Therapeutics-IB	3+1
PHARM 413	Pharmacognosy-IA (Basic)	3+1	PHARM 418	Pharmacognosy-IB (Basic)	3+1
PHARM 414	Pharmacy Practice-IA Pharmaceutical Mathematics)	3	PHARM 419	Pharmacy Practice-IB (Bio-statistics)	3
Total Cr.		22	Total Cr.		21

### 3rd Professional Pharm.D.

1st Semester			2nd Semester		
Course No.	Subject	Cr. Hr.	Course No.	Subject	Cr. Hr.
PHARM 510	Pharmacy Practice-IIA (Dispensing Pharmacy)	3+1	PHARM 515	Pharmacy Practice-IIB (Community, Social & Administrative Pharmacy)	3
PHARM 511	Pharmaceutical Chemistry-IIIA (Pharmaceutical Analysis)	3+1	PHARM 516	Pharmaceutical Chemistry-IIIB (Pharmaceutical Analysis)	3+1
PHARM 512	Pharmacology and Therapeutics-IIA	3+1	PHARM 517	Pharmacology and Therapeutics-IIB	3+1
PHARM 513	Pharmacognosy-IIA (Advanced)	3+1	PHARM 518	Pharmacognosy-IIB (Advanced)	3+1
PHARM 514	Pathology	3+1	PHARM 519	Pharmacy Practice-III (Computer & its Applications in Pharmacy)	3+1
Total Cr.		20	Total Cr.		19

#### 4th Professional Pharm.D.

1st Semester			2nd Semester		
Course No.	Subject	Cr. Hr.	Course No.	Subject	Cr. Hr.
PHARM 610	Pharmacy Practice-IVA (Hospital Pharmacy)	3	PHARM 615	Pharmacy Practice-IVB (Hospital Pharmacy)	3
PHARM 611	Pharmacy Practice-VA (Clinical Pharmacy)	3+1	PHARM 616	Pharmacy Practice-VB (Clinical Pharmacy)	3+1
PHARM 612	Pharmaceutics-IVA (Industrial Pharmacy)	3+1	PHARM 617	Pharmaceutics-IVB (Industrial Pharmacy)	3+1
PHARM 613	Pharmaceutics-VA Biopharmaceutics & Pharmacokinetics)	3+1	PHARM 618	Pharmaceutics-VB (Biopharmaceutics & Pharmacokinetics)	3+1
PHARM 614	Pharmaceutics-VIA Pharmaceutical Quality Management)	3+1	PHARM 619	Pharmaceutics-VIB (Pharmaceutical Quality Management)	3+1
Total Cr. 19			Total Cr. 19		

#### 5th Professional Pharm.D.

1st Semester			2nd Semester		
Course No.	Subject	Cr. Hr.	Course No.	Subject	Cr. Hr.
PHARM 710	Pharmaceutics-VIIA (Pharmaceutical Technology)	3+1	PHARM 715	Pharmaceutics-VIIB (Pharmaceutical Technology)	3+1
PHARM 711	Pharmacy Practice-VIA (Advanced)	3+1	PHARM 716	Pharmacy Practice-VIB (Advanced)	3+1
PHARM 712	Clinical Pharmacy-II) Pharmacy Practice-VIIA	3	PHARM 717	Clinical Pharmacy-II) Pharmacy Practice-VIIB	3
PHARM 713	Pharmacy Practice-VIIIA (Pharmaceutical Management & Marketing)	3	PHARM 718	Pharmacy Practice-VIIIB (Pharmaceutical Management & Marketing)	3
PHARM 714	Pharmaceutical Chemistry-IVA (Medicinal Chemistry)	3+1	PHARM 719	Pharmaceutical Chemistry-IVB (Medicinal Chemistry)	3+1
Total Cr. 18			Total Cr. 18		

#### Pharm.D. Five Year Credit Hours Summary

Pharm.D.	1st Semester	2nd Semester	3rd Semester
Professional	Cr. Hr.	Cr. Hr.	Cr. Hr.
1st	22	20	42
2nd	22	21	43
3rd	20	19	39
4th	19	19	38
5th (Final)	18	18	36
Total Credit Hours	101	97	198

# **DOCTOR OF PHYSICAL THERAPY (DPT)**

## **RATIONALE**

Physical therapy is an essential segment of modern health care system. It is a “science of healing and art of caring”. It pertains to the clinical examination, evaluation, assessment, diagnosis and treatment of musculoskeletal, Neurological, Cardio-Vascular and Respiratory systems’ functional disorders including symptoms of pain, edema, physiological, structural and psychosomatic ailments. It deals with methods of treatment based on movement, manual therapy, physical agents and therapeutics modalities to relieve the pain and other complications.

Hence, Physical therapy covers basic parameters of healing sciences i.e. preventive, promotive, diagnostic, rehabilitative and curative.

## **GOALS OF THE PROGRAMME:**

**THE PURPOSE OF THE DOCTOR OF PHYSICAL THERAPY PROGRAMME (DPT) IS TO**

### **PREPARE PHYSICAL THERAPISTS WHO WILL:**

1. Be primary providers of physical therapy care.
2. Serve as responsible members in the professional community and are willing and able to assume leadership roles in the communities they serve.
3. Identify researchable problems, advocate and participate in research, and incorporate research findings into clinical practice.
4. Understand and place in context the social, economic and cultural issues of practice and effectively advocate for changes in policy.
5. Correlate theory with practice and think creatively about, react to, adapt or shape new practice environments.
6. Participate in and provide education for communities, patients, peers, students and others.

## **OBJECTIVES OF THE PROGRAMME:**

### **GRADUATES OF THE DOCTOR OF PHYSICAL THERAPY PROGRAMME WILL:**

1. Demonstrate in-depth knowledge of the basic and clinical sciences relevant to physical therapy, both in their fundamental context and in their application to the discipline of physical therapy.
2. Understand, correlate and apply theoretical foundations of knowledge to the practice of physical therapy; evaluate and clarify new or evolving theory relevant to physical therapy.
3. Demonstrate the behaviors of the scholarly clinician by developing and utilizing the process of critical thinking and inquiry, particularly focused on the improvement of the practice of physical therapy and the delivery of health care.
4. Engage in reflective practice through sound clinical decision making, critical self-assessment and commitment to lifelong learning.
5. Demonstrate master of entry level professional clinical skills. Provision of these services as based on the best available evidence and includes physical therapy examination, evaluation, diagnosis, prognosis, intervention, prevention activities, wellness initiatives and appropriate health care utilization.

6. Prepared to influence the development of human health care regulations and policies that are consistent with the needs of the patient and of the society.
7. Demonstrate leadership, management and communication skills to effectively participate in physical therapy practice and the health care team.
8. Incorporate and demonstrate positive attitudes and behaviors to all persons.
9. Demonstrate the professional and social skills to adapt to changing health care environments to effectively provide physical therapy care.

**SCHEME OF STUDIES FOR 5-YEARS  
DOCTOR OF PHYSICAL THERAPY (DPT) PROGRAMME)**

<b>SEMESTER/YEAR</b>	<b>NAME OF THE SUBJECT</b>	<b>CREDITS</b>
	<b>FIRST PROFESSIONAL YEAR</b>	
<b>FIRST</b>	ANATOMY-I	4(3+1)
	PHYSIOLOGY-I	3(2-1)
	KINESIOLOGY-I	3(2-1)
	ENGLISH-I (FUNCTIONAL ENGLISH)	3(3-0)
	PAKISTAN STUDIES	2(2-0)
	BIostatISTICS-I	3(3-0)
		<b>18</b>
<b>SECOND</b>	ANATOMY-II	4(3-1)
	PHYSIOLOGY-II	3(2-1)
	PINESIOLOGY-II	3(2-1)
	ENGLISH-II (COMMUNICATION SKILLS)	3(3-0)
	ISLAMIC STUDIES / ETHICS	2(2-0)
	BIostatISTICS-II / UNIVERSITY OPTIONAL	3(3-0)
		<b>18</b>
	<b>SECOND PROFESSIONAL YEAR</b>	
<b>THIRD</b>	ENGLISH-III (Technical Writing & Presentation Skills)	3(3-0)
	INTRODUCTION TO COMPUTER	3(2-1)
	ANATOMY-III	3(2-1)
	PHYSIOLOGY-III	3(2-1)
	BIOMECHANICS & ERGONOMICS-I	3(3-0)
	BIOCHEMISTRY & GENETICS-I	2(2-0)
		<b>17</b>
<b>FOURTH</b>	ANATOMY-IV (Neuro Anatomy)	3(2-1)
	BIOMECHANICS & ERGONOMICS-II	3(2-1)
	BEHAVIORAL SCIENCES (Psychiatry & Psychology)	3(3-0)
	BIOCHEMISTRY & GENETICS-II	2(2-0)
	EXERCISE PHYSIOLOGY	3(3-0)
	MEDICAL PHYSICS	3(2-1)
		<b>17</b>

SEMESTER/YEAR	NAME OF THE SUBJECT	CREDITS
	SCIENTIFIC INQUIRY & RESEARCH METHODOLOGY	3(2-1)
	PROFESSIONAL PRACTICE (LAWS, ETHICS & ADMINISTRATION)	2(2-0)
	INTEGUMENTARY PHYSICAL THERAPY	2(2-0)
	SUPERVISED CLINICAL PRACTICE-V	3(0-3)
		<b>18</b>
<b>TENTH</b>	OBSTETRICS & GYNAECOLOGICAL PHYSICAL THERAPY	2(2-0)
	PAEDIATRIC PHYSICAL THERAPY	2(2-0)
	GERONTOLOGY & GERIATRIC PHYSICAL THERAPY	2(2-0)
	SPORTS PHYSICAL THERAPY	2(2-0)
	SUPERVISED CLINICAL PRACTICE-VI	4(0-4)
	RESEARCH PROJECT	<b>18</b>
	<b>TOTAL CREDITS</b>	<b>175</b>

**NOTE \***

1. This scheme of curriculum is also applicable to annual system; in which two consecutive semesters will be considered as one professional year.
2. Credit hours distribution is as following:
  - 2.1 **Theory:** one credit hour shall be equal to one hour of teaching per week throughout the semester.
  - 2.2 **Practical / lab:** one credit hour shall be equal to three hours of clinical work per week throughout the semester.
  - 2.3 **Research:** one credit hour shall be equal to three hours of research work per week throughout the semester.

**HOUSE JOB**

One year of house job will be incorporated at the end of five year degree programme.

<b>SEMESTER/YEAR</b>	<b>NAME OF THE SUBJECT</b>	<b>CREDITS</b>
	<b>THIRD PROFESSIONAL YEAR</b>	
<b>FIFTH</b>	PATHOLOGY & MICROBIOLOGY-I	2(2-0)
	PHARMACOLOGY-I	3(3-0)
	PHYSICAL AGENTS & ELECTROTHERAPY-I	3(2-1)
	THERAPEUTIC EXERCISES & TECHNIQUES	3(2-1)
	SOCIOLOGY	2(2-0)
	HEALTH & WELLNESS	2(2-0)
	SUPERVISED CLINICAL PRACTICE-I	3(0-3)
<b>SIXTH</b>		<b>18</b>
	PATHOLOGY & MICROBIOLOGY-II	3(2-1)
	PHARMACOLOGY-II	2(2-0)
	PHYSICAL AGENTS & ELECTROTHERAPY-II	3(2-1)
	MANUAL THERAPY	3(2-1)
	TEACHING METHODOLOGY & COMMUNITY MEDICINE	3(3-0)
	SUPERVISED CLINICAL PRACTICE-III	3(0-3)
		<b>17</b>
	<b>FOURTH PROFESSIONAL YEAR</b>	
<b>SEVENTH</b>	MEDICINE-I	3(3-0)
	SURGERY-I	3(3-0)
	RADIOLOGY & DIAGNOSTIC IMAGING	3(2-1)
	MUSCULOSKELETAL PHYSICAL THERAPY	3(2-1)
	HUMAN GROWTH, DEVELOPMENT & COMMUNITY BASED REHABILITATION	2(2-0)
	SUPERVISED CLINICAL PRACTICE-III	3(0-3)
		<b>17</b>
<b>EIGHT</b>	MEDICINE-II	3(2-1)
	SURGERY-II	2(2-0)
	NEUROLOGICAL PHYSICAL THERAPY	3(3-0)
	EVIDENCE BASED PRACTICE	3(2-1)
	PROSTHETIC & ORTHOTICS	2(2-0)
	SUPERVISED CLINICAL PRACTICE-IV	3(0-3)
		<b>18</b>
<b>NINTH</b>	CARDIOPULMONARY PHYSICAL THERAPY	3(2-1)
	EMERGENCY PROCEDURES & PRIMARY CARE IN PHYSICAL THERAPY	2(2-0)
	CLINICAL DECISION MAKING & DIFFERENTIAL DIAGNOSIS	3(3-0)



# **BACHELOR OF EASTERN MEDICINE** **& SURGERY (B.E.M.S.)**

## **DEPARTMENT OF EASTERN MEDICINE**

Eastern Medical Education aims at producing competent eastern medicine (tibbi) physicians. Such physicians, with practical training based on scientific knowledge of modern diagnostics and Tibbi fundamentals will be able to take up responsibilities in health services.

Pakistan is not the only country teaching such courses. Many developed countries have adopted the concept of alternative medicine. In Japan, it is called 'Kampo' that has a society that exceeds more than 10,000 members. In India and China, they have specialized hospitals where patients are treated with herbal medicines.

In this situation, the quest for an alternative system of medicine always remained in the minds of health specialists. As a result of continuous efforts, the National Council for Tibb (NCT) a regulatory and registration authority for Eastern Medicine was established. NCT helped in improving tibbi medicine and the registration of eastern medicine (tibbi) practitioners.

The objective behind this program is to prepare batches of knowledgeable and committed eastern medicine practitioners who could become agents of change by fulfilling healthcare needs of the masses based on centuries old wisdom and expression of tibb.

## **PROGRAM OFFERED**

Bachelor of Eastern Medicine and Surgery (BEMS)

### **Faculty members:**

<b>S.No</b>	<b>Name</b>	<b>Designation</b>	<b>Qualification</b>
<b>1</b>	<b>Mr.Shafi Mohammad</b>	<b>Chairperson/ Assistant Professor</b>	<b>B.Pharm, M.Phil, Ph.D</b>
2	Mr.MuhammadIshaq	Lecturer (Contract)	BEMS, M.Phil (Reg)
3	Mr.Toufeeq Ahmed	Lecturer (Contract)	BEMS, M.Phil (Reg)
4	Mr.AmjadHussain	Lecturer (Visiting)	BEMS

## **OBJECTIVES**

- Train eastern medicine (Tibbi ) graduates capable of treating ailing persons through modern diagnostic techniques and with time tested remedies of Eastern Medicine.
- Prepare eastern medicine (Tibbi) clinicians to demonstrate professional skills through standard curative, preventive, and promotive interventions.
- Produce qualified eastern medicine (Tibbi ) practitioners to understand temperament, body humors, disease process and to treat patients with confidence and kindness.
- Integrate basic medical knowledge with diagnostic skills and eastern medicine (Tibbi ) therapeutics and pharmacognosy.
- Plan and carry out research in Eastern Medicine aimed at health promoting and disease curing, based on principles of tibb.

- Support National Health System by assisting/supervising/contributing in the areas of Safe Food & Nutrition, Maternal Child Health, Health Education, Family Planning, Sanitation, Safe Water, and Clean Environment.
- Produce qualified graduates with knowledge of Eastern Medicine in tandem with latest technologies for diagnosis and modern methods of treatment and healthcare.

### **SCOPE**

It is worthwhile to note that the number of eastern medicine manufacturing units in the country is more than 400. They are producing and marketing thousands of herbal products in the market. Recently the regulation of Alternative medicine has been established and implementation has been started. Apart from that, hundreds of eastern medicine Clinics / Matabs/ Dispensaries, both in public and private sectors, are functional. Therefore the need for qualified and competent eastern medicine (Tibbi ) physician / hukama is fast increasing.

Following are some of the areas where job opportunities for qualified eastern medicine (Tibbi ) physician exist:

- General Practice / Private Practice: Set up a private clinic as practice as Registered eastern medicine (Tibbi ) physician Practitioner, authorized to prescribe eastern ( Tibbi) Medicine.
- Teaching Career: Appointed as lecturer/instructor in Tibbi institutions, Deptts. of Eastern Medicine, etc.
- Appointed as Registered eastern medicine (Tibbi ) physician Practitioner in any private institution as a recognized tibbi practitioner.
- Appointed as a scientific officer, research officer, in quality assurance, production, etc. in eastern medicine (Tibbi) pharma industry, as Sales officer, Product Promotion Officer of tibbi pharmaceutical industry, etc. and as Food & Nutrition Education Officer, Food Supervisor, Food Inspector in Govt., Semi Govt., and Private sectors.

### **Criteria and requirements**

- The duration of the degree course is 5 years.
- The candidate must have passed F.Sc Pre-Medical
- The candidate has to appear for the entry test conducted by NTS & qualify on merit.

**SUBJECTS**  
**FIRST PROFESSIONAL**

### THIRD PROFESSIONAL Theory

Paper 1.	Pharmacy	100
Paper 2.	Microbiology & Parasitology	100
Paper 3.	Community Medicine	100
Paper 4.	Materia Medica-I	100
Paper 5.	Pharmacognosy-II	100
Paper 6.	Clinical Methods and Therapeutics-I	100
Paper 7.	Forensic Medicine and Toxicology	100
<b>Practical</b>		
Paper 8.	Pharmacy	100
Paper 9.	Microbiology & Parasitology	100
Paper 10.	Materia Medica-I	100
Paper 11.	Pharmacognosy-II	100
<b>Clinical</b>		
Paper 12.	Clinical Methods and Therapeutics-I	100
<b>Total =</b>		<b>1200</b>

### FOURTH PROFESSIONAL Theory

Paper 1.	Pathology	100
Paper 2.	Surgery-I	100
Paper 3.	Clinical Psychology & Psychiatry	100
Paper 4.	Materia Medica-II	100
Paper 5.	Obstetrics and Gynaecology-I	100
Paper 6.	Clinical Methods and Therapeutics-II	100
<b>Practical</b>		
Paper 7.	Pathology	100
Paper 8.	Clinical Psychology & Psychiatry	100
Paper 9.	Materia Medica-II	100
<b>Clinical</b>		
Paper 10.	Surgery-I	100
Paper 11.	Obstetrics and Gynaecology-I	100
Paper 12.	Clinical Methods and Therapeutics-II	100
<b>Total =</b>		<b>1200</b>

## GYNECOLOGY FINAL PROFESSIONAL Theory

Paper 1.	Paediatrics	100
Paper 2.	Ophthalmology and ENT	100
Paper 3.	Obstetrics &Gynaecology–II	100
Paper 4.	Surgery–II	100
Paper 5.	Clinical Diagnostics	100
Paper 6.	Clinical Methods and Therapeutics–III	100
<b>Clinical</b>		
Paper 7.	Pediatrics	100
Paper 8.	Ophthalmology and ENT	100
Paper 9.	Obstetrics &Gynaecology–II	100
Paper 10.	Surgery–II	100
Paper 11.	Clinical Diagnostics	100
Paper 12.	Clinical Methods and Therapeutics–III	100
<b>Total =</b>		<b>1200</b>
<b>TOTAL MARKS OF STUDY COURSE =</b>		<b>5500</b>

### FACILITIES

**Teaching Laboratories:** The Faculty of Pharmacy has 8 well-equipped and modern laboratories along with the supporting staff to cater the needs of Pharmacy students.

**Research Laboratory:** A separate well equipped laboratory is developed for M.Phil and Ph.D students where all facilities for research are available including latest equipments.

**Computer Lab:** Computer laboratory is established which can be used by students and research scholars of the Faculty.

**Industrial Lab:** The Faculty of Pharmacy has established a well-equipped and modern industrial lab for students, Graduates and researchers.

**Physical Therapy Lab:** Two well-equipped Physical Therapy modern laboratory were established, where all facilities are available.

**Animal House:** An animal house is established for students and researchers.

**Faculty Library:** The Faculty library is managed by a qualified librarian and has over 800 books covering a wide range of disciplines in Pharmacy for teaching and research purposes. These books are in addition to more than 1000 titles of Pharmacy books stocked in Central library of the University. The Faculty library also has a vast collection of International Research Journals. A complete list of these Journals can be obtained from the librarian.

**Internet Facility:** The internet facility is also available in all laboratories and library numbers of International research journals are available on Digital Library provided by Higher Education Commission.

## **FACILITIES.**

### **Teaching Laboratories.**

The Faculty of Pharmacy has 6 well-equipped and modern laboratories along with the supporting staff to cater the needs of Pharmacy students.

### **Research Laboratory.**

A separate well equipped laboratory will be developed for M.Phil and Ph.D students

### **Computer Lab.**

Computer laboratory is established which can be used by students and research scholars of the Faculty

### **Industrial Lab**

The faculty of Pharmacy has established a well equipped and modern industrial lab for students Graduates and researchers.

### **Faculty Library**

The Faculty library is managed by a qualified librarian and has over 800 books covering a wide range of disciplines in Pharmacy for teaching and research purposes. These books are in addition to more than 1000 titles of Pharmacy books stocked in Central library of the University. The Faculty library also has a vast collection of International Research Journals. A complete list of these Journals can be obtained from the librarian.

### **Internet Facility.**

The internet facility is also available in all laboratories and library number of International research journals are available on Digital Library provided by Higher Education Commission and research articles of interest can also be downloaded.

### **Microbiology Research Laboratory.**

A separate well equipped Laboratory has been developed for subject of Microbiology and higher research students.

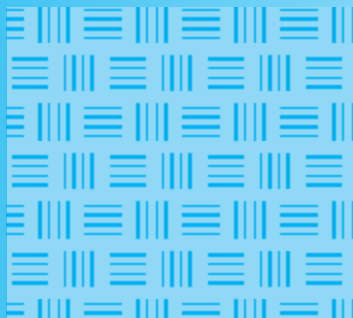
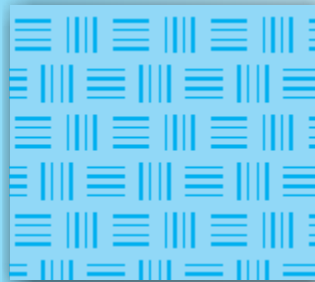
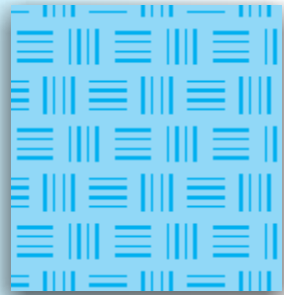


## **EARTH & ENVR: SCIENCES**

Earth & Environmental science is the study of the environment, and the solution of environmental problems.

# **Faculty of Earth & Environmental Sciences**

**BS. (Geology)** *4 years program*





# DEPARTMENT OF GEOLOGY

## 1. Introduction

- 1.1. Geology is the science of earth dealing with rocks, minerals, the origin, history and structure of the earth. It plays an important role in the economy of a nation. It is one of the most important subjects of basic and applied sciences, particularly with reference to the Balochistan province, which provides excellent opportunities for the development and exploitation of natural resources. Balochistan has high prospects for geological research and exploration of economic mineral deposits, petroleum, groundwater and other natural resources.
- 1.2. The Department of Geology is one of the seven departments, established at the raising of the University of Balochistan in 1971. During the initial years, the department offered only M.Sc. courses. Now BS 4-Years (Applied Geology) Program is also offered.

## 2. Objectives

- 2.1. To prepare high quality professionals in the field of geology through 4-Years B.S. (Applied Geology) and 2-Years M.Sc. (Geology) programs in order to meet the national and international needs.
- 2.2. To prepare professional and skilled manpower in the field of Applied Geology, capable of carrying out geological field and analytical work independently.
- 2.3. To provide training to plan and conduct goal-oriented research projects and assess their socio-economic aspects, achieve targets, write technical reports and scientific research papers and provide consultancy services.

## 3. Vocational Job Opportunities / Marketability of Graduates

- 3.1. The graduates will have opportunities to work in the following organizations:  
Geological Survey of Pakistan (GSP),  
Pakistan Atomic Energy Commission,  
Hydrocarbon Development Institute of Pakistan,  
Water and Power Development Authority (WAPDA),  
Oil and Gas Sector,  
Pakistan Mineral Development Corporation (PMDC),  
Balochistan Development Authority (BDA),  
Public Health Engineering Department,  
Various educational institutions (mostly Universities and Colleges) and  
Various national and international mineral exploration companies.
- 3.2. The opening of new projects, such as Saindak Metals Limited, Rikho-Dic Copper-Gold Project, Gawadar Port, construction of dams, development of gas pipeline from Iran to India, development of water reservoirs and thermal (coal-based) power stations in the country, have high potential for new job opportunities.

## 4. Faculty

S. #	Name	Designation	Qualification	Specialization
1.	Mr. Mohammad Ayub Baloch	Assistant Professor <b>Chairperson</b>	M.Phil UoB	Petroleum Geology
2.	Dr. Muhammad Ibrahim Baloch	Associate Professor	Ph.D. Ukraine	Hydrogeology
3.	Mr. Din Mohammad Kakar	Assistant Professor	M.Phil UoB	Sedimentology

4.	Mr. Nasir Karim	Asstt. Professor	M.Sc. UoB	Sedimentology
5.	Mr. Rahim Jan	Asstt. Professor	P.hD	Sedimentology
6.	Dr. Mohibullah	Asstt. Professor	M.Sc. UoB	Biostratigraphy
7.	Mr. Rahim-ud-Din	Lecturer	M.Sc. UoB	Petroleum Geology
8.	Mr. Tahir Iqbal	Lecturer	M.Sc. UoB	Hydro-Geology
9.	Ms. Shazia Fareed	Lecturer	M.Sc. UoB	Physics
10.	Ms. Nazima Yousuf	Lecturer	M.Sc. SBKWU, Quetta	Chemistry
11.	Mr. Aminullah	Museum Curator	M.Sc. UoB	Petroleum Geology

## 5. Programs of Study

### 5.1 B.S. (Applied Geology) Program

5.1.1. **Duration:** B.S. (Applied Geology) is a 4-years program. During 1<sup>st</sup> year and 2<sup>nd</sup> year beside geology, allied subjects are also taught. During 3<sup>rd</sup> year, core subjects of geology are covered. During 4<sup>th</sup> year, students can opt for their fields of interest from amongst several groups of optional courses.

## 6. Description of Courses

6.1. Presently the 4-Years BS (Applied Geology) program is being run under the Annual System of examinations.

6.2 B.S. (Applied Geology) Programme Annual System

6.2.1 Schedule of Courses in Annual System

### Schedule of Courses

<u>Course No.</u>	<u>Title</u>	<u>Marks</u>
<b>1<sup>st</sup> Year</b>		
Geol-101	Islamic Studies	50
Geol-102	English	100
Geol-103	Applied Mathematics-I	100
Geol-104	Applied Physics-I	75+25
Geol-105	Applied Chemistry-I	75+25
Geol-106	General Geology	75+25
Geol-107	Zoology	75+25
Geol-108	Botany	75+25
<b>2<sup>nd</sup> Year</b>		
Geol-201	Pak. Studies	50
Geol-202	Applied Mathematics-II	100
Geol-203	Applied Physics-II	75+25
Geol-204	Applied Chemistry-II	75+25
Geol-205	Paleontology & Stratigraphy	75+25
Geol-206	Crystallography, Optical Mineralogy	75+25
Geol-207	Computer & Geostatistics	50+50
Geol-208	Field Work	100

<u>Course No.</u>	<u>Title</u>	<u>Marks</u>
<b>3<sup>rd</sup> Year</b>		
Geol-301	Geotectonics & Structural Geology	75+25
Geol-302	Sedimentology	75+25
Geol-303	Economic & Field Geology	75+25
Geol-304	Igneous and Metamorphic Petrology	75+25
Geol-305	Micropaleontology & Biostratigraphy	75+25
Geol-306	Minerology	75+25
Geol-307	Geophysics and Geomorphology	75+25
Geol-308	Field Geology, Field Mapping, Report and Viva Voce (Fieldwork is compulsory)	50+50
<b>4<sup>th</sup> Year</b>		
Geol-401	Geology of Pakistan	75+25
Geol-402	Research Project and Thesis	100
Geol-403-Geol-406	<b>Four courses</b> to be chosen from a number of Groups of Specialization, depending on the availability of facilities in the Department. Two courses (out of the 4 chosen) must Be directly relevant to the Thesis.	Each 75+25

## 7. Eligibility Criteria

### 7.1. 4-Years B.S. (Applied Geology) Programme

- 7.1.1. Candidates should have passed Fsc Pre-Eng/Pre Medical/ ICS Groups.
- 7.1.2. Candidate should have sound Physique and capable of undertaking climbing heights during fieldwork and should not suffer from color blindness for the purpose of optical Work.
- 7.1.3. Should qualify the entry test conducted by NTS and qualify on merit.

## 8. Facilities

- 8.1. **Departmental Library** Library of the Department contains more than 2500 textbooks, reference books, geological encyclopedias, field reports and audiovisual materials (i.e. geological videos, Cds, slides and Transparencies).

### 8.2. Laboratories

- 8.2.1. **Geochemistry Laboratory:** This laboratory has some facilities for geochemical analysis. It is \equipped with glassware and chemicals.
- 8.2.2. **Petrography Laboratory:** The petrography lab has facilities for megascopic analysis of minerals and rocks.
- 8.2.3. **Microscopic Laboratory:** This laboratory is well equipped for the microscopic analysis of the rocks and minerals. It contains transmitted and reflected research microscopes, polarizing microscopes and projected microscopes. One of the research microscope has attached computer, display monitor and camera for obtaining microphotographs.

- 8.2.4. **Thin Section Workshop:** This workshop contains facilities for preparation of thin sections of rocks and is equipped with rock cutting machine, polishing machine, grinder with different mesh sizes, abrasive sands and other chemicals used for the preparation of thin sections of rocks. Other equipments include crusher, water distal plant, and micro grinder.
- 8.2.5. **Computer Laboratory:** This laboratory is equipped with fifteen computers, a Laser Printer, a Scanner and a Photocopier. Computers have connection with the main network of the University and internet. A large number of international research journals are also available on the Digital Literary provided by the Higher Education Commission, where students can download research articles of their interests.
- 8.2.6. **Museum** is one of the attractive places of the University. It contains about 1000 specimens of Rocks, minerals and fossils of foreign and local collections.



### **MANAGEMENT SCIENCES**

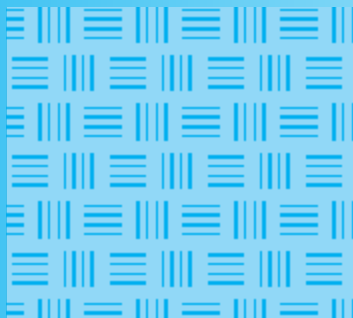
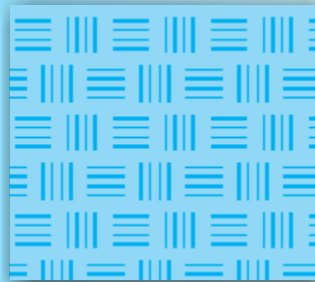
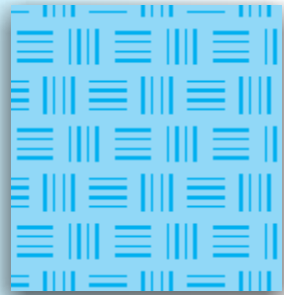
The study of statistical methods, such as linear programming and simulation, in order to analyze and solve organizational problems. Same as operations research.

## **Faculty of Management Sciences, Business & Information Technology**

**BS. (Computer Science) 4 years**

**BS. (Information Technology) 4 years**

**B.Com (Self Finance) 2 years**



# DEPARTMENT OF COMPUTER SCIENCES AND INFORMATION TECHNOLOGY

## 1. Introduction

### **1. INTRODUCTION.**

- 1.1. The invention of microprocessor started influencing every facet of life in the 1970's. With the birth of personal computers and its use became Common. A post graduate diploma was started with the raise of a computer section in the department of physics in 1984.
- 1.2. This section has raised to Department level in during early 90's.
- 1.3. The department has started teaching Master in Computer Science (MCS) classes since 2001 and BS(CS/IT) classes since 2002.

### **2. OBJECTIVES.**

- 2.1. To produce qualified professionals in the field of CS and IT.
- 2.2. To inculcate an academic culture aimed at professionals grooming and creative thinking.

### **3. VOCATIONAL JOB OPPORTUNITIES**

- 3.1. I.T based services, Commercial and financial public and private organizations.
- 3.2. Computer Hardware/Software suppliers/users in public/private sector.
- 3.3. Telecom Sector.
- 3.4. Multi-National Companies.

## 4. Faculty

S.#	Faculty Member Name	Designation	Qualification	Field of Specialization
1	Mr. Muhammad Khalid Badini	Lecturer/ Chairperson	MCS. MS	Operating System, Web Programming & DBMS
2	Syed Amjad Hussain Jafri	Assistant Professor	M.Sc (Computer Science) M.Sc (Statistics)	Automata Theory, Data Structure & Programming Languages
3	Dr. Atiq Ahmed	Assistant Professor (HEC Approved Ph.D Supervisor	PhD (France) MS (France), MCS	Wireless Networks, Telecommunication Systems, Multiagent Systems, AI
4	Dr. Ihsan Ullah	Assistant Professor	PhD (France), MS (France)	Telecommunication Networks
5	Syed Mohammad Zubair	Assistant Professor	BS(CS), MS (Sweden)	Network Security
6	Dr. Waheed Noor	Assistant Professor	PhD (Thailand)	Data Mining, Machine Learning, AI

S.#	Faculty Member Name	Designation	Qualification	Field of Specialization
7	Dr. Junaid Babar	Asstt Professor	PhD (Thailand)	Retrieval Information
8	Dr. Maheen Bakhtyar	Asstt Professor	PhD (Thailand)	NLP
9	Dr. Abdul Basit	Asstt Professor	PhD (Thailand)	Computer Vision
10	Dr. Mir Sadaat Baloch	Asstt Professor	PhD (UK)	Social Marketing
11	Mr. Liaquat Ali	Lecturer	BCS, MCS, MS	DBMS, Data Mining
12	Mr. Muhammad Shumail Naveed	Lecturer	BCS, MCS, M.Phil	Computer Theory, Software Engineering
13	Ms. Tayyaba Noreen	Lecturer	M.Com	Economics
14	Mr. Jalaluddin Qureshi	Lecturer	BE(CE)	Data Structure
15	Mr. Anwar Ali Sanjrani	Lecturer	B.E (CE) MBA	AI, Operations Systems Computer Architecture
16	Ms. Shafaque Saira Malik	Lecturer	BCS, MCS	Artificial Intelligence
17	Mr. Imran Ali	Lecturer	MCS	Software Engineering

## 5. Other staff

DBMS, Data Mining

01	Mr. Muhammad Sajid	Lab Administrator	MIT, MPhil	DBMS
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## 6. PROGRAM OF STUDIES OFFERED

6.1. **Morning Program.** B.S. (Computer Science) & B.S. (Information Technology) which is a four years degree programs.

### 6.2. Outline of Subjects

- 6.2.1. Both Morning & Evening program's various courses are offered over a wide range of topics, including Algorithms development and analysis, Advanced Computer Architecture, Theory of Formal Languages, Theory of Computation, Design of Automation, Data Communication & Networking, Operating Systems, Software Engineering, Computer Graphics, Database Management Systems, Artificial Intelligence.
- 6.2.2. Apart from above programs, various workshops, seminars and specialized professional courses are also organized to cover most recent technological developments in hardware and software, and CASE (Computer Aided/Assisted Software/System Engineering) tools.



## 7. DESCRIPTION OF COURSES

### 7.1. B.S (Computer Science & Information Technology)

- 7.1.1. Duration of Program. Four Years
- 7.1.2. Number of Semesters . Eight (Two semester Per Year)
- 7.1.3. Number of Courses. Twelve courses every Year Maximum
- 7.1.4. Credit hours per course. Three Credit Hours per course
- 7.1.5. Total Credit hours. 135
- 7.1.6. Total number of Course. ~44
- 7.1.7. In each semester students will be taught maximum six courses including compulsory course such as Islamic and Pakistan Studies, English, and Humanities according to the existing rules of the University. All courses will be taught at the Computer Science Department.

## 8. NUMBER OF AVAILABLE SEATS.

## 9. Eligibility Criteria for Admission.

9.1. BS (CS) Program: Candidate must have passed any of the following with at least 45% marks.

9.1.1. H.S.C (Pre-Engineering group), or

9.1.2. H.S.C (Mathematics, Statistics, Computer Science), or

9.1.3. H.S.C. (Mathematics, Statistics, Economics) or DAE (Computer, Science)

1.1.4. GCE O-Levels (Computing/ Mathematics)

9.2 BS (IT) Program: Candidate must have passed the H.S.C or DAE with at least 45% Marks.

## 10. FACILITIES

10.1.1. The Department of Computer Science has three well equipped labs (fully Air-conditioned with 90 on line workstations)

### 10.2. Computing Labs.

Name	Equipment / Facilities	Location
LAB.1	30 Pentium III PCs, Multimedia Projector, Server, LAN, all time Internet connectivity	Computer Science Building
LAB 2	30 Pentium IV PCs, Multimedia Projector, Server (Dual Processor Xeon), LAN, all time Internet connectivity	Computer Science Building
LAB 3	30 Pentium IV PCs, Multimedia Projector, Server (Dual Processor Xeon), LAN, all time Internet connectivity	Computer Science Building

10.3. **Departmental Library.** The Departmental library has over 1500 books covering a wide range of disciplines in computer science & information technology for teaching and research purpose.

10.4. **Internet Facility.** The internet facility is also available in all Computer Labs & Teachers Offices. A large number of research journals are also available on Digital Library provided by HEC and research articles of interest can also be down loaded.

### BS (Computer Science)

#### Semester 1

S.No	Code	Pre-Requisite	Subjects	Total Credit Hrs	Theory/Lab
1	CS 301		Introduction to Computing	4	3+1
2	CS 302		Programming Fundamentals	4	3+1
3	MT 301		Calculus & Analytical Geometry	3	0
4	EG 301		Functional English	3	0
5	PK 301		Islamic Studies / Pakistan Studies	3	0
<b>Total:</b>				<b>17</b>	

#### Semester 2

S.No	Code		Subjects	Credit Hrs	Theory/Lab
6	MG 301		Human Resource Management	3	0
7	CS 303		Discrete Structures	3	0
8	MT 302		Probability and Statistics	3	0
9	CS 304	CS 301	Object Oriented Programming	4	3+1
10	EG 302		Communication Skills	3	0
<b>Total:</b>				<b>16</b>	

#### Semester 3

S.No	Code		Subjects	Credit Hrs	Theory/Lab
11	CS 306		Digital Logic Design	3	2+1
12	ST 301	MT 301	Differential Equations	3	0
13	EL 301		Basic Electronics	3	0
14	CS 307	CS 304	Data Structure and Algorithms	4	3+1
15	MT 330		Linear Algebra	3	0
<b>Total:</b>				<b>16</b>	

#### Semester 4

S.No	Code		Subjects	Credit Hrs	Theory/Lab
16	CS 308	CS 303	Introduction to Database Systems	4	3+1
17	CS 309	MT 301	Numerical Computing	3	0
18	CS 310	CS 302	Introduction to Software Engineering	3	0
19	CS 311	CS 303	Operating Systems	4	3+1
<b>Total:</b>				<b>14</b>	

### Semester 5

S.#	Code		Subjects	Credit Hrs	Theory/Lab
21	CS 313	CS 310	Advanced Software Engineering	3	2+1
22	CS 314	CS 306	Computer Communication and Networks	3	0
23	CS 315	CS 307	Design & Analysis of Algorithm	3	0
24	CS 316	CS 306	Computer Organization & Assembly Language	3	2+1
25	CS 317	CS 310	Web Engineering	4	3+1
26	CS 318	CS 303	Theory of Automata and Formal languages	3	0
<b>Total:</b>				<b>19</b>	

### Semester 6

S.#	Code		Subjects	Credit Hrs	Theory/Lab
27	CS 319	CS 306	Computer Architecture	3	2+1
28	SS 301		Economics	3	0
29	CS 320	CS 308	Distributed Database Systems	3	2+1
30	CS 321		Elective - I	3	0
31			Elective - II	3	
<b>Total:</b>				<b>15</b>	

### Semester 7

S.#	Code		Subjects	Credit Hrs	Theory/Lab
32	CS 322	CS 318	Compiler Construction	3	0
33	CS 323		Operations Research	3	0
34	CS 324		Artificial Intelligence	3	0
35	CS 325		Human Computer Interaction	3	0
36			Elective-III	3	
<b>Total:</b>				<b>15</b>	

### Semester 8

S.#	Code		Subjects	Credit Hrs	Theory/Lab
37	CS 327	CS 303	Computer Graphics	3	2+1
38	CS 328		Research methodology	3	
39			Elective-III	3	
40			Elective-IV	3	
41	CS 329		Senior Design Project	6	3+3
<b>Total:</b>				<b>18</b>	

## BS (INFORMATION TECHNOLOGY)

### Semester 1

S.No	Code		Subjects	Credit Hrs	Theory/Lab
1	IT 301		Introduction to IT	3	2+1
2	CS 302		Programming Fundamentals	4	3+1
3	MT 301		Calculus & Analytical Geometry	3	0
4	EG 301		Functional English	3	0
5	PK 301		Islamic Studies / Pakistan Studies	3 (1.5+1.5)	0
<b>Total:</b>				<b>16</b>	

### Semester 2

S.No	Code		Subjects	Credit Hrs	Theory/Lab
6	MG 301		Human Resource Manageme	3	0
7	CS 303		Discrete Structures	3	0
8	CS 305	CS 302	Object Oriented Paradigm	4	3 1
9	EG 302		Communication Skills	3	0
10	MT 302		Probability and Statistics	3	
<b>Total:</b>				<b>18</b>	

### Semester 3

S.No	Code		Subjects	Credit Hrs	Theory/Lab
11	CS 306		Digital Logic Design	3	2 1
12	EG 303		Technical Report Writing	3	
13	EL 301		Basic Electronics	3	
14	CS 307	CS 305	Data Structure and Algorithms	4	3 1
15	MT 303		Linear Algebra	3	
<b>Total:</b>				<b>16</b>	

### Semester 4

S.No	Code		Subjects	Credit Hrs	Theory/Lab
16	CS 308		Introduction to Database Systems	3	2 1
17	MG 302		Organizational Behavior	3	
18	CS 310		Introduction to Software development	3	
20	CS 312		Operating Systems	4	3 1
<b>Total:</b>				<b>16</b>	

### Semester 5

S.No	Code		Subjects	Credit Hrs	Theory/Lab
21	CS 313	CS 310	Advanced Software Engineering	3	2 1
22	CS 314	CS 306	Computer Communication and Networks	3	
23	CS 315	CS 307	Design & Analysis of Algorithm	3	
24	IT 303		E biz (E commerce)	3	
25	CS 317	CS 310	Web Engineering	4	
26	CS 318	CS 303	Theory of Automata and Formal languages	3	
<b>Total:</b>				<b>18</b>	

### Semester 6

S.No	Code		Subjects	Credit Hrs	Theory/Lab
27	MG 303		Management information systems	3	2 1
28	SS 301		Economics	3	
29	CS 320		Distributed Database Systems	3	
30	CS 321		Elective - I		
31	CS 319	CS 306	Computer Architecture	3	
32			Elective - II	3	
<b>Total:</b>				<b>18</b>	

### Semester 7

S.No	Code		Subjects	Credit Hrs	Theory/Lab
32	CS 322	CS 318	Compiler Construction	3	
33	CS 323		Operations Research	3	
34	CS 324		Artificial Intelligence	3	
35	CS 325		Human Computer Interaction	3	
36	CS 326	CS 310	Software project management	3	
37			Elective-III		
<b>Total:</b>				<b>18</b>	

### Semester 8

S.No	Code		Subjects	Credit Hrs	Theory/Lab
38	CS 327	CS 303	Computer Graphics	3	3 3
39	CS328		Research methodology	3	
40			Elective - IV	3	
41			Elective	3	
42	IT 304		IT Project	6	
<b>Total:</b>				<b>18</b>	

# DEPARTMENT OF COMMERCE

## Mission Statement

The mission of the Department of Commerce is “to impart quality and research oriented education about the commerce and equipping the students with opportunity to enhance their skills and abilities to make optimal strategic decisions in Business world.”

## Introduction

The Department of Commerce, University of Balochistan has been instrumental in providing the candidates with thorough theoretical and practical knowledge of the Commerce. Department of Commerce has privilege to be among the oldest department of UOB since 1973 as undergraduate Department. Later on, B.com (2 Years) and M.Com (2 Years) programs have been structured to combine academic theory with practical problems. Currently, MPhil and PhD program have also been structured to cater the need of Balochistan in area of Commerce & Business and accelerate the research environment in the Balochistan. For this purpose, seminars and workshops on current Commerce and business issues are also organized in the Department.

Bachelor of Commerce (B.COM) is one of the most popular degrees among students. It is a specialized job oriented degree, which has great demand in job market.

The Department of Commerce is also trying its best to accelerate in two directions:

- 1) In Educational development through expanding its educational program by introducing the B.S. four year program and switching the M.com Program into Semester system. MPhil and PhD programs have been initiated to boost the research environment.
- 2) In Up-dating the curriculum to bring a change on continuous basis to comply with the international education system. In this regards, Department is continuously doing its best to offer the subjects especially in Graduate and post graduate programs , which are well demanded in the business world, the students are capable of acquiring good jobs both at national and international level they are well equipped with all those disciplines which are the need of the day

The peculiarity of Department is that its is “The Producer of Future HR in Commerce & Business” by enabling the students to be the Business leaders, Managers, Entrepreneurs, Bankers etc. of tomorrow, this approach also leads students towards their targeted job market and make their way clear towards the destination of professionalism. Major portion of provincial workforce in the business and banking sectors have been graduated from Department of Commerce, UOB, either at Bachelors level or Mater level.

## **Objectives of B.com Program**

1. To equip the candidates with fundamental principles of commerce.
2. To facilitate incremental building of knowledge to cope with the needs of public and private sector.

## **Career Opportunities**

Alumni of the Department of Commerce are currently being engaged in different fields of public and private sector like NGOs, Education, Business, Banking, Accounting etc. Hence B.com students may seek career/job in following areas:

Accounting & Taxation Fields  
Entrepreneurship  
Business  
Banking  
NGOs  
Pubic and Privates Organizations  
Audit Department  
Commerce Education Organizations

### Admission Eligibility Criteria

Intermediate FA, F.Sc, I.Com, D.Com, ICS or equivalent (equivalent to 12 years of education) with at least 45% marks

### FACULTY

An educational institution is strengthened and known because of its Faculty members. Therefore, Department of Commerce has both domestic and international PhD Faculty Members along other faculty Members to strengthen the department.

S.NO	Name	Designation	Qualification	Field of Specialization
1	Prof.Dr. Nadeem Malik	Professor, Dean Faculty of Management Science, Business & IT	PhD in Commerce	Human Resource Mgt
2	Mr. Inayatullah Khan	Assistant Professor / Chairperson	MPhil	Commerce
3.	Mr.Abdul Lateef Khan Durrani	Assistant Professor	MPhil	Mathematics& Statistics
4.	Dr. Muhammad Ali	Associate Professor	PhD	Commerce
5.	Dr. Abdul Rashid Khan	Assistant Professor	PhD	Economics
6.	Mrs. Shakira Bukhari	Assistant Professor	MPhil	Commerce
7.	Dr.Uzma Mukhtar	Assistant Professor	PhD- AIT ( Thailand)	Management ,(HRM & OB)
8.	Mr. Abdul Quddus	Lecturer	M.Com	Commerce
9.	Dr. Muhammad Shafiq	Lecturer	MPhil	Commerce
10	Mrs. Amina Khuda Dad	Lecturer	M.Com	Commerce
11	Syed Jameel Ahmed	Lecturer	MBA	HRM
12	Mr. Dilawar Khan Durrani	Lecturer	MBA	Finance

### Commerce Department Program of the Study & Description

B.Com (Self Finance)

M.Com (Morning & Evening)

MPhil (Commerce)

PhD (Commerce)

### B.Com Course Descriptions

The Bachelor of Commerce (B.Com) program is a well-renowned 2-year degree program which has been designed to equip the students with adequate knowledge and skills which would help them taking an early start of their professional career so that they can earn their livings and support their families too.

Currently Department is offering two year self-finance program in the evening with an intent to provide chance to the students who can't avail opportunity to attend the morning class. Following subjects are

Offered:

1. Business Communication.
2. Fundamental of Business.
3. Principal of Business Economics.
4. Business Law.
5. Banking and Finance.
6. Principles of Accounting
7. Pakistan Studies.
8. Islamic Education
9. Economics of Pakistan
10. Fundamental of Cost Accounting
11. Advance Accounting.
12. Business Mathematics
13. Business Statistics
14. Auditing and Taxation



## EDUCATION & HUMANITIES

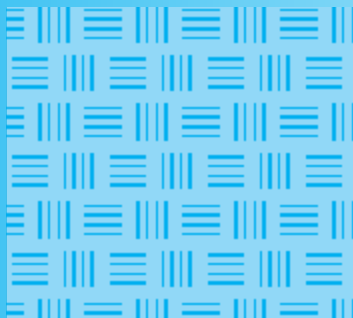
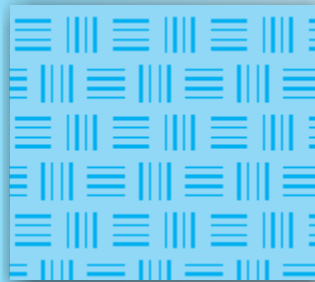
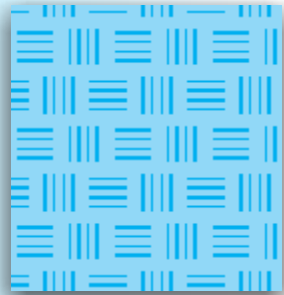
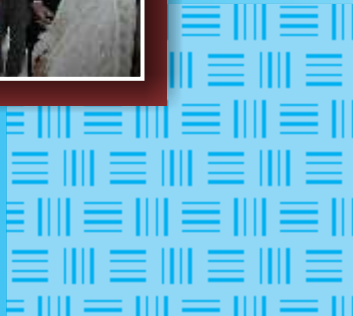
The humanities are academic disciplines that study human culture.

# Faculty of Education & Humanities Bachelor Program (4 years)

Fine Arts  
Institute of Education & Research (IER)







# DEPARTMENT OF FINE ARTS

## 1. Introduction

- 1.1. The Department of Fine Arts deals with Painting, Drawing, Sculpture and Graphic Art as well as historical theories of human development through ages.
- 1.2. The Department of Fine Arts was established in March 1984 with four faculty members Mr. Jamal Shah, Mrs. Faryal Ghouhar, Mr. Akram Dost and Mr. Kaleem Khan.
- 1.3. In 1986 this certificate course was upgraded to four year full time Bachelor degree course (BFA).
- 1.4. The Department of Fine Arts is playing very important role in introducing Balochistan's heritage and its indigenous art, crafts and Architecture. Since the civilization of Maher Garh (9000 B.C) is a great source of inspiration for researchers and provide linkage with the other world of Art and Craft. The Department of Fine Arts is also providing facility to study in depth the cultural heritage of Balochistan.

## 2. Objectives

- 2.1. To foster an environment that promotes learning through quality teaching and research while encouraging mutual respect, tolerance and sensitivity.
- 2.2. To produce Artists of caliber who can compete both at national and international levels.
- 2.3. To produce Art teachers/good researchers.
- 2.4. To produce skilled Book illustrators.
- 2.5. To provide qualified and focused professionals in the subject of Fine Arts to meet the future needs of educational institutes or industry.

## 3. Vocational Job Opportunities / Marketability of Graduates

- 3.1. Layout designer.
- 3.2. Free lance Artist.
- 3.3. Book illustrator.
- 3.4. Education and Research Institute.
- 3.5. Print and electronic Media.

## 4. Faculty

S.no	Name	Designation	Qualification
1	Dr. M. Akram Dost (Pride of Performance)	Chairperson	Ph.D (Fine Arts)
2	Muhammad Ayub	Assistant Professor	MFA
3	Ambreen Hussain	Assistant Professor	BFA
4	Syed Mubarak Shah	Lecturer	BFA
5	Nisar Ahmed	Lecturer	BFA
6	Intikhab Umer	Lecturer	BFA
7	Mir Jabbal	Lecturer	BFA
8	Zil e Huma Perivz	Lecturer	BFA

## **5. Programs Study**

- 5.1. The Department of Fine Arts provides four year BFA with four major areas i.e. Painting, Sculpture, Graphic Art and Miniature Paintings.
- 5.2. The Topic of thesis is selected by the students their own choice, however their skill and approach is motivated and guided by the jury of the Department at the time when the mini-thesis is displayed.
- 5.3. The final year students will submit thesis report (research of his selected topic).

## **6.Courses for B.F.A**

### **6.1. First Year**

#### **6.1.1. Practical:**

6.1.1.1.	(Drawing)	100
6.1.1.2.	(Sculpture)	100
6.1.1.3.	(Design)	100
6.1.1.4.	(Drafting)	100

#### **6.1.2. Theory:**

6.1.2.1.	(History of Culture)	50
6.1.2.2.	(Anthropology)	50
6.1.2.3.	(Visual Arts)	50
6.1.2.4.	Research paper /Seminar	50
6.1.3.	Total Marks: -	<b>600</b>

### **6.2. Second Year**

#### **6.2.1. Practical:**

6.2.1.1.	(Drawing, Miniature and Painting)	100
6.2.1.2.	(Sculpture)	200
6.2.1.3.	(Painting)	200
6.2.1.4.	(Graphics)	100

#### **6.2.2. Theory:**

6.2.2.1.	(Art History)	100
6.2.2.2.	(Art Appreciation)	100
6.2.2.3.	Research/Seminar	100

6.2.3. Total Marks: - **900**

### **6.3. Third Year:**

#### **6.3.1. Practical:**

6.3.1.1.	(Drawing)	100
6.3.1.2.	Minor (Painting, Sculpture, Graphics. Miniature)	100
6.3.1.3.	Major (Painting, Sculpture, Graphics Miniature)	300

#### **6.3.2. Theory:**

6.3.2.1.	(History of Muslim Painting with special emphasis on Mughal painting)	100
6.3.2.2.	(Techniques of Painting)	100
6.3.2.3.	(History of Western Art various schools)	100
6.3.2.4.	(Entrepreneurship)	

6.3.3. Total Marks: - **800**

6.4.	<b>Fourth Year</b>	
	PRACTICAL:	
6.4.1.	(Drawing)	100
6.4.2.	Major (Painting, Sculpture, Graphics, Miniature)	300
6.4.3.	Minor (Painting, Sculpture, Graphics Miniature)	100
6.5.	<b>Theory:</b>	
6.5.1.	(History of Muslim Architecture in Sub-Continent with special emphasis on Mughal Architecture)	100
6.5.2.	(Techniques of Graphic Arts, Molding and casting)	100
6.5.3.	(History of Modern Art from French School to Present)	100
6.5.4.	Thesis report / Research Paper	100
6.6.	<b>Total Marks</b>	<b><u>900</u></b>
6.7	<b>BFA Grand Total Marks</b>	<b>3200</b>

## **7. Eligibility Criteria**

- 7.1. F.A/F.Sc or its equivalent and drawing test is essential, which has to be qualified with 45% marks.

## **9. Future Plans**

In future the Department of Fine Arts wishes to introduce two years M.F.A course is being prepared on the guide line of the National College of Arts, Lahore, which is already approved by HEC. The admission in MFA will be given to those students only whose performance had been out standing in (BFA) Bachelor of Fine Arts.

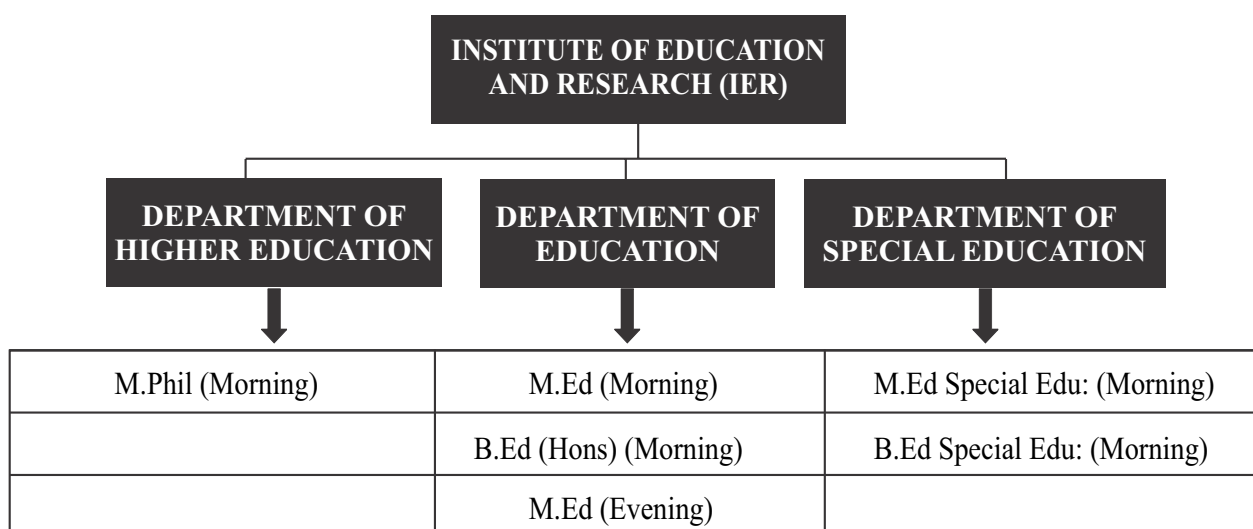
# Institute of Education & Research (IER)

## Introduction

The discipline of education is a foundation subject in social sciences crucially contributing towards the national development. Education is concerned with human resource development for efficient functioning of educational system. It is founded on scientific study of human behavior including teacher and students and the functioning of educational organizations at all levels. It covers all aspects of educational system from academic performance to zeal and motivation among teachers and students. Education is inter-disciplinary in its nature and have concern with human psychology, organizational behavior, leadership, economics of education, testing and measuring the performance of individual and institutions. Discipline of education is eligible to develop a boarder perspective among its students to prepare them for leadership roles to bring about positive social change in the educational institutions and society.

## History of the University & the Institute of Education & Research

- \* The University of Balochistan was established in 1971 in Quetta, Balochistan, Pakistan. It has more than 6000 students in one campus, 42 Different fields of studies and 07 faculties.
- \* The Institute of Education and Research was established in 1976 as Department of Education. It was given the status of Institute in 2015. At the time of its Inception, the following objectives were set forth for the Institute.
- \* To produce professional teachers, who have the theoretical knowledge and understanding, combined with practical skills, competencies and commitment to teach.
- \* To inculcate the habit of enquiry and seek the research based knowledge and with a view to improve teaching and learning in schools.
- \* Development of modern teaching skills and techniques.
- \* Institute is premier teacher Education Institution in Balochistan. The institute at present provides facilities to train teachers / its students. The one year Master of Education (M.Ed) program was introduced in 1976 to extend opportunities for an advance degree in the discipline of Education.
- \* One Year M.Ed and B.Ed Evening program on self-finance were launched in 1999 to provide opportunities for professional growth and development to in service teachers. A regular two year Master of Arts in Education (M.A Education) Program of studies was introduced in 2005 to provide pre-Service teacher Education and training.
- \* In March 2011 the new Program ADE/ B.Ed (Hons) was introduced by the support of USAID & Pre-STEP. It is a Pre-Service teacher education Program that can provide the better professionally trained teacher to the Province.
- \* The Department of Education is upgraded as Institute of Education and Research (IER) in 2015. The institute has comprises three broad Department.



- \* The programs of the institute were accredited in July 2013, for the next three years (2016) that are M.Ed (Morning) B.Ed (Hons) M.Ed (Evening) B.Ed (Evening) programs. The benefit of accreditation will be that now our degree can be accepted as (accredited program degree) internationally.
- \* Recently all the courses for B.Ed, B.Ed (Hons) & M.Ed have been revised and different specializations have been started in M.Ed Program. The Institute from this academic session is starting its M.Phil (Education) classes also.
- \* The institute started the Bi-Annual Journal, the first journal was published in January, 2016.

### **Mission Statement**

The Institute strives for quality Education for Pre and In-service teachers and educational managers through offering research-based program, providing collaborative and effective academic environment to meet the educational needs of the society.

### **Vision Statement**

The Institute aims to engage partners to create a Centre of Excellence by strengthening, its faculty, improving infrastructure, and setting policies and procedures to foster quality education

### **Value Statement**

The Institute operates on core values of commitment, creativity, responsiveness and respect to others to serve the community along with professional skills, dignity and sincerity.

### **Contact Information**

Institute of Education and Research (IER), University of Balochistan, Quetta

Phone: +92-81-9211245, (Intercom: 1212/ 1214)

Fax: +92-81-9211245

Email: [ier@uob.edu.pk](mailto:ier@uob.edu.pk)

### **Faculty**

<b>S.no</b>	<b>Name</b>	<b>Designation</b>	<b>Qualification</b>	<b>Field of Specializaion</b>
1	Mr. Abdul Nasir Kiazai <b>Director IER</b>	Assistant Professor	M.Phil / M.Ed / M.A / LLB P.hD. Scholar (HU) Karachi	Education Foundation, Education Administration & Supervision
2	Mr. Dost Mohammad Tareen, Chairperson <b>Special Education</b>	Assistant Professor	M.Phil / M.A (Eng. Lit) M.Sc (Math)	Research Method and Statistics
3	Mr. Amir Bano Chairperson <b>Higher Education</b>	Assistant Professor	M.Phil / M.Ed / P.hD Scholar (Priston Unv) Islamabad	Guidance & Counseling, Educational Psychology
4	Mr. Bushra Batool Chairperson <b>Education Department</b>	Lecturer	M.Ed / M.Sc M.Phil Scholar UOB	Education Psychology, Foundation of Education, Philosophy of Education Measurement & Evaluation
5	Mrs. Shireen Taj	Assistant Professor	M.Ed / M.Phil Scholar UOB	Curriculum Development/ Society School & Teacher
6	Ms. Sajida Noureen	Assistant Professor	M.Ed (UK) Ph.D Scholar	<b>Study Leave</b>
7	Ms. Zahida Achakzai	Lecturer	M.Ed /M.Sc /M.Phil leading to Ph.D Scholar (IIU) Islamabad	<b>Study Leave</b>

S.no	Name	Designation	Qualification	Field of Specializaion
8	Ms. Syeda Basit Anjum	Lecturer	M.Ed /M.A /M.Phil leading to Ph.D Scholar (UMT) Lahore	Study Leave
9	Ms. Ayesha Akbar Gilani	Lecturer	M.Ed / M.Sc	Ex-Pakistan Leave
10	Mr. Ashraf Nasir	Lecturer	M.A Education/M.Phil leading to Ph.D Scholar (GU) UK	Study Leave
11	Ms. Khalida Panezai	Lecturer	M.Ed / M.Sc M.Phil Scholar UOB	Education Psychology, Guidance & Counseling
12	Mr. Abdul Qudoos	Lecturer	M.A Education/M.Phil Scholar	Research Methods
13	Mr. Abdul Wahab	Lecturer	M.Ed /M.A Sociology / M.Phil Scholar UOB	Admin & Supervision
14	Ms. Shumaila Dad	Lecturer	M.A Education / M.Sc Microbiology / M.Phil Scholar SBK	Teaching of Pakistan Studies / English
15	Ms. Nadia Ali	Lecturer	M.A Education M.Phil Scholar SBK	Gender Education

## B.Ed (Honors) 4 Years Program

### Degree Requirement:

The Institute of Education & Research has four year B.Ed (Hons) for that degree requirement is the successful completion of 8 semesters along with the University of Balochistan Semester Policy with the 2 CGPA.

Course Duration:	4 Years
Semester Duration:	16-18 Weeks
Semesters:	8
Course Load Per Semester:	15-18 Credit Hours
Number of Courses:	5-6

### Structure of the Scheme:

Courses	Credit Hours
Compulsory Courses:	19
Professional Courses:	49
Foundation Courses:	24
Content Courses:	27
Teaching Practice:	15
Total credit Hours:	134

### Semester: I (Year - I)

S. No	Name of the Subject	Nature of the Subject	Credit Hours
1.	Functional English-I	Compulsory	03
2.	Islamic Studies/ Ethics	Compulsory	02
3.	Child Development	Foundation	03
4.	Urdu/ Regional Languages	Content	03
5.	General Science	Content	03
6.	General Methods of Teaching	Foundation	03
	<b>Total Credit Hours in the Semester</b>		<b>17</b>

<b>Semester: II</b>	<b>(Year - I)</b>		
1.	English-II (Communication Skills)	Compulsory	03
2.	Computer Literacy	Compulsory	03
3.	Classroom Management	Foundation	03
4.	General Mathematics	Compulsory	03
5.	Pakistan Studies	Compulsory	02
6.	Method of Teaching Islamic Studies	Professional	03
	<b>Total Credit Hours in the Semester</b>		<b>17</b>
<b>Semester: III</b>	<b>(Year - II)</b>		
1.	Teaching Literacy Skills	Professional	03
2.	Arts, Crafts and Calligraphy	(Content)	03
3.	Teaching of Urdu/ Regional Languages	Professional	03
4.	Teaching of G. Science	Professional	03
5.	Instructional & Comm: Tech: (ICT) in Edu:	Professional	02
6.	Teaching Practice	Short Term	03
	<b>Total Credit Hours in the Semester</b>		<b>17</b>
<b>Semester: IV</b>	<b>(Year - II)</b>		
1.	Classroom Assessment	Foundation	03
2.	Teaching of English	Professional	03
3.	Teaching of Mathematics	Professional	03
4.	School, Community & Teacher	Foundation	02+1
5.	Teaching of Social Studies	Professional	02
6.	Teaching Practice		03
	<b>Total Credit Hours in the Semester</b>		<b>17</b>
<b>Semester: V</b>	<b>(Year - III)</b>		
1.	English-III (Tech: Writing & Presentation Skills)	Compulsory	03
2.	Foundations of Education	Foundation	03
3.	Content Course-I (Science)	Content	03
4.	Content Course-I (Urdu)	Content	03
5.	Curriculum Development	Foundation	03
6.	Educational Psychology	Foundation	03
	<b>Total Credit Hours in the Semester</b>		<b>18</b>
<b>Semester: VI</b>	<b>(Year - III)</b>		
1.	Contemporary Issues & Trends in Education	Professional	03
2.	Content Course-II (Social Studies)	Content	03
3.	Content Course-II (English)	Content	03
4.	Comparative Education	Professional	03
5.	Introduction to Guidance & Counseling	Professional	03
	<b>Total Credit Hours in the Semester</b>		<b>15</b>



<b>Semester: VII</b>	<b>(Year - IV)</b>		
1.	Content Course-III (Mathematics)	Content	03
2.	Content Course-III (Islamiat)	Content	03
3.	Pedagogy-I (Methods of Teaching related Specialization-I)		03
4.	Pedagogy-II (Methods of Teaching related Specialization-II)		03
5.	Research Methods in Education	Professional	03
6.	Teaching Practice	(Short Term)	03
<b>Total Credit Hours in the Semester</b>			<b>18</b>

<b>Semester: VIII</b>	<b>(Year - IV)</b>		
1.	School Management	Professional	03
2.	Test Development & Evaluation	Professional	03
3.	Teaching Practice	Long Term	06
4.	Research Project	Professional	03
<b>Total Credit Hours in the Semester</b>			<b>15</b>
<b>Grand Total Credit Hours in the Semester</b>			<b>134</b>

### Eligibility Criteria for Admission

- 1. Qualification:** F.A / F.Sc / A-Level / or any equivalent with minimum 45% aggregate marks.
- 2. Age Limit:** 17-25 & Maximum 40 years for the in-Service teachers (Age limit will be considered till the last date for the forms submission)

### Facilities

USAID funded 15 need cum merit-based scholarship will be available through Pre-STEP for students of B.Ed (Hons) Elementary Program.

After completing 2 years, the Universities/Institutions may award an Associate Degree in Education (ADE0. However, the students admitted for B.Ed (Hons) 4 years Degree Program will continue for 3rd & 4th Semester.

#### Local and Domicile of Balochistan

	<b>Category 'A' 3%</b>
Open merit: Balochistan:	10%
Open merit: Quetta District:	15%
Open merit: District and other than Quetta:	75%

#### Personnel serving in Balochistan:

**Category "B"**  
(Non-Local and non-Domicile) Daughter / Son / spouse University employees Nominees of AJK, Armed forces / northern areas / FATA and Federal School / reserved seats for disabled.

#### Daughter/Son/Spouse of the employees of the University Category "C"

Category C applicants will submit their application forms to the assistant Registrar (Student Affairs) by the due date attached with the required documents and an Affidavit specimen of which is Annex "A".

### Computer Laboratory

Institute has well established computer laboratory equipped with multimedia, 12 latest version computers (Core i5), 11 Laptop Trolley connected with Internet, printers and IWB, which can be used by research scholars and faculty.

### Departmental Library

The Institute's Library is managed by a qualified librarian and has over 5000 Books covering a wide range of disciplines in Education for teaching and research purposes. It also possesses research journals of social sciences like, Balochistan studies journal, Punjab Journal Review (PJR) and Sindh University Journal Review.

### **Accounts Office**

The Institute of Education & Research recently opens a separate to look after the accounts matters related to the official and students concern. **(Mr. Muhammad Aamir, Incharge Accounts)**.

### **Admin Office**

To facilitate the students in regard of admission and other related information (Mr. Abdul Khaliq Admin Officer & Mr. Abdul Majeed Incharge Admn Office) are deputed to done this job.

### **Internet Facility**

The internet facility is available. A large number of international research Journals are also available on Digital Library provided by Higher Education Commission (HEC) and research article of interest can also be down loaded.

### **Committee Room**

A Committee room equipped with all the modern facilities including slides, overhead projector, multimedia, IWB and computer connected with internet and printer.

### **Security Measures**

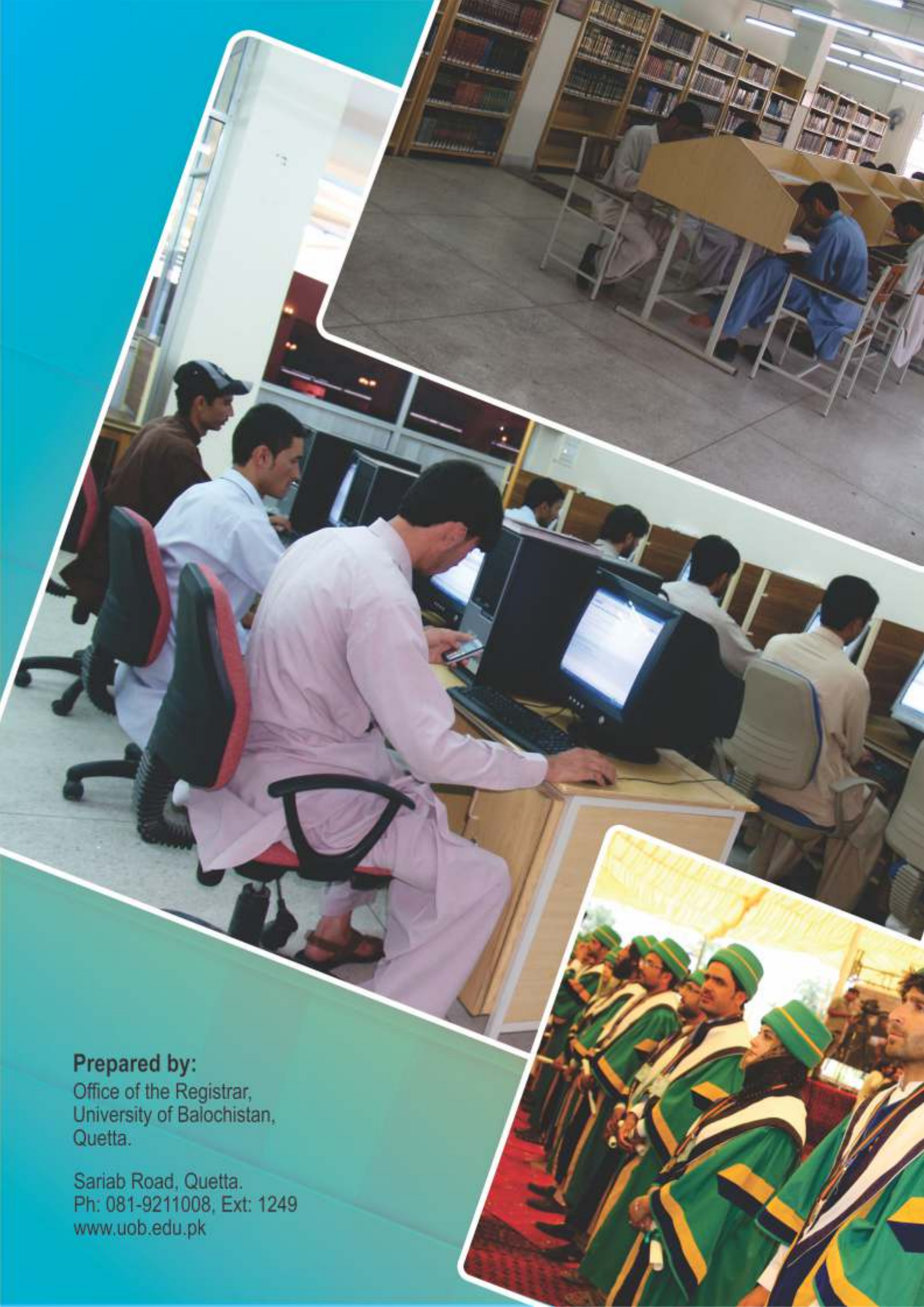
The institute has taken serious action regarding security measures, the whole Institute's critical openings are grilled for the security purpose and fixed the grills on all windows and opening doors, and also fixed th 04 security cameras in all corridors.

### **Science Laboratory**

The Science Laboratory of the Institute has essential equipment and apparatus for practical work in the science subjects at secondary level.

### **Instructional Aids**

- \* Computers
- \* Printers
- \* Multimedia
- \* OHPs
- \* Screens
- \* Photocopier
- \* Laptops
- \* Cameras
- \* Scanner
- \* IWB (Interactive White Board)
- \* Wi-Fi Router
- \* USB
- \* Hard Drive
- \* Book Binding Machine



**Prepared by:**

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