

# University of Balochistan Quetta PROSPECTUS 2017-18

**Bachelor Degree Programs** 

# **Faculty of Life Sciences**

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

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

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

# Faculty of Pharmacy & Health Sciences

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

# **Faculty of Education and Humanities**

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

# Faculty of Earth and Environmental Sciences

- 1). BS. (Geology)
- 2). BS. (Renewable Energy)

# Faculty of Literature & Languages

1). BS. (English)





# VICE CHANCELLOR'S MESSAGE TO STUDENTS



Welcome to University of Balochistan, Quetta!

You are going to be part of most important and exciting journey of your life with a leading mother institute of Balochistan. You will be exploring new areas, discovering new interests, learning new skills and viewing 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, and integrity together with our loyal principles of unity, faith and discipline constitute the core values of every member of our team come from different regions of the country with vastly different social divisions and ethnicities; a true representation indeed of the beautiful assortment of Pakistan, united in our belief in core values. Sports, Art, Drama, Debates and numerous 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. Department of Renewable Energy, Department of Pharmacy is now a full-fledged Faculty with five Departments, Department of Archaeology is 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 at every step of the way.

Dear students you will always find me and my staff available to solve your problems.

May Allah Almighty help and guide us! Ameen.

Prof. Dr. Javeid Iqbal Vice Chancellor

# **Foreword**

Dear Students.

Being a Registrar University of Balochistan, it gives me pleasure to welcome you in the oldest and premier University. Indeed it is a matter of pride and honor that you have chosen University of Balochistan for making your future.



Dear Students, excellence, integrity, tolerance, and diversity are the values which add force to the University's progress and growth. Our success lies in our educational approach, personal and professional development of students. Students are free to pursue their education and co-curricular activities in a traditionally diversified educational environment. Our students are of different age groups who come from different regions and backgrounds as well as different countries of the world. They bring a wide range of viewpoints, special interests, and talents to enrich our educational community.

The University Registrar Office facilitates the admission process from one end to the other end. The office strictly observes the merit principle and addresses student's genuine grievances through a systematized approach to ensure timely completion of admission process in a comprehensive manner. The Registrar office appreciates comments and suggestions from all quarters for the improvement of its system to make it more efficient and delivering.

We assure you best educational and research atmosphere at University of Balochistan and hope you will come to learn and leave to serve.

Muhammad Tariq Jogezai Registrar

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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)
- 7.7. Director General (P&D)
- 7.8. Director General (E&W)
- 7.9. Director General (Administration)
- 7.10. Chairman (FTDC)
- 7.11. Director, Office of Research Innovation & Commercialization (ORIC)
- 7.12. Chairman, Graduate Studies Office (GSO)

## 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. <u>Role and duties of faculty of Students.</u> 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 Renewable	4 years
10.5.	BS Biotech/Bio Chem	4 years
10.6	BS English (Linguistics & Literature)	2 years
10.7	Bachelor Fine Arts	4 years
10.8	D-Pharm	5 years
10.9	B.Ed (Hons)	4 years
10.10	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. Local and Domicile of Balochistan - Category 'A'
Open merit: Balochistan
Open merit Quetta District
Open merit: District other than Quetta
75%
23

Category "A" Local / Domiciled Residents of Balochistan. (Applicants will submit their application forms

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 So	eats	Procedure
1.	Azad Jamu & Kashmir	Arts Faculty: Science Faculty	01 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: Science Faculty:	02 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: Science Faculty:	05 05	Applications will be entertained through proper channel (Applicants must possess Computerized NADRA Refugees Card)
5.	N.A. (Norther Area)	Arts Faculty: Science Faculty:	01 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	03	Applications to be submitted on prescribed Application Form to the Assistant Registrar (SA) as per admission schedule.
7.	Disabled Persons (Balochistan only)	Arts Faculty: Science Faculty	02 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 then 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 2017 shall not be eligible for admission this year.
- 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 2017/Annual/Bi-Annual 2016. 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 2015 can also be considered for seeking admission.
- 14.6. Admissions in all disciplines will be granted on merit basis. Atleast candidates passed their qualifying examination with 2<sup>nd</sup> division can apply for 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 A student will be allowed to appear in examination only if he/she has attended, not less than 75% of the lectures/seminars delivered to his/her class in each course and 75% of the practicals/laboratory demonstrations prescribed for the respective courses.
- 16.2 Calculation of attendance shall start from the date of commencement of classes.
- 16.3 A date-wise record of the attendance of students shall be maintained by the respective teacher in each course. One week before the commencement of the final examination, the teacher of each course shall send to the Chairperson/Head of the Department/Institute a statement in duplicate giving the total number of lectures delivered (practicals conducted) by him together with the total number of lectures and practicals attended by each student.
- 16.4 The period of absence in case of participation in co-curricular/sports activities outside the University of Balochistan, Quetta, with the permission of the Competent Authority may not be counted, as absence.
- 16.5 Students having class attendance less than 75% in a particular course shall be awarded "F? grade in that course and he/she shall be required to repeat the same course, if it is a compulsory course or an equivalent course in lieu thereof, if it is an optional course.
- 16.6 Absence from class for two consecutive weeks or more (two weeks means six classes for a three credit hours course and four classes for a two credit hours course) without any genuine reason shall entail cancellation of admission in the course by the class teacher which would only be restored on appeal to the concerned teacher made within 05 days of the cancellation order with payment ofRs.1000/-. The class teacher will inform the Chairperson of the Department regarding cancellation and restoration of admission in the course. However, the payment of Rs.1000/- will not remove the absence of a students from the attendance sheet and it will be counted while calculating the percentage of total attendance of the student for the purpose of examination.
- 13.8 Absence from a class for four or more weeks, consecutive, will debar the student from examination and the course will be considered dropped. He/she will be required to be repeat it.

# 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.

# 18. Disciplinary Action

- 18.1. 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:
  - 18.1.1. A student may be fined.
  - 18.1.2. 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.
  - 18.1.3. A student may be suspended from the rolls of a College / Institute / Center / Department for a period not exceeding two weeks at a time.
  - 18.1.4. 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. <u>Digital Library</u> 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.
- 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. <u>Video Conference Center</u> 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. <u>Hostels</u>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. <u>Medical Center / Health Care</u> 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. <u>Bank and Post Office</u> A branch of Habib Bank and Post Office are available with in the premises of the University.
- 21.9. <u>Transport</u> 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. <u>Study Tour</u>Students Study Tours are considered educational as well as part of the University's cocurricular 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. <u>Audio Visual Aids</u> 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. <u>Career Counseling Cell</u> 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 o			
seeking admission in the	5/0		Department of
University of Balochistan, Quetta i			D cpuirtinent of
The deponent swears / solemnly aft that it conceals nothing and that no		e said declaratio	
	Name. Designation Father. N.I.C. No.		
It is certified that Mr. Miss/Mrs	CERTIFICATION	S/D/W/O	is
an employee of and	De	esignation	
			gt.
Attested by: Magistrate/Oath Commissioner			Signature Head of the Organization (Na)ne & 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 de	eponent declares on oath /solemn affirmat	tion that the applicant	
seekin	g admission in the Department of	University of Balochistan	, Quetta is my:
(a) II. and tha	Son / Daughter (b) Real B The deponent swears / solemnly affirm at it conceals nothing and that no part of i	Brother/Real Sister (c) s that the abovesaid declaration s it is false.	Husband/Wife submitted is true
		DEPONENT	
	Name:		
		nation:	
		No.:	
	CERTIFIC		
It is certified th	at Mr. Miss/Mrs	S/D/W/O	is
An employee o	ofdesignation		and at
	g in the deptt/section		
			Signature Head of Deptt ( Name & Stamp)
		Name:	
Magis	trate / Oath Commissioner	Designation	1

# **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

		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
seekii	ng admi	ssion in the University of Balochistan, Quetta do hereby undertake that while studying in the
Unive	ersity he	she shall not indulge in any sort of politics. And if ever during the studentship is found indulging
in pol	itics, he	/she can be expelled from the University without any notice.
	I also	o undertake that the findings with regard to his/her indulgence in politics given by the competen
autho	rity of tl	he University under his seal and signature shall be final and shall not be questioned except only
before	e the Sup	preme Court of Pakistan.
Date:		Signature of the Parent /Guardian
<b></b> 1		(UNDERTAKING BY THE CANDIDATE)
(To be	e 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.
- 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)
	-	



# 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 stuents. 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.

	and experienced. Details are given below.					
S#	Name Designation Qualification		Qualification	Field of Specialization		
	Professors					
1	Dr. Mohammad Ayub	Director	Ph.D. UoB	Molecular Biology / Biochemistry		
2	Prof. Dr. Zahid Mehmood	Professor	Ph.D. UoB	Biochemistry		
3	Prof. Dr. M. Anwer Panezai	Professor	Ph.D. UoB	Biochemistry		
4	Prof. Dr. Ashif Sajjad	Professor	Ph.D. Italy	Biochemistry		
		Associate Profess	ors			
1	Dr. Muhammad Azam	Associate Professor	Ph.D. UK	Polymer Science		
		Assistant Professo	ors			
1	Mr. Khalid Mehmood	Assistant Professor	M.Phil. UoB	Biochemistry		
2	Dr. Imran Ali	Assistant Professor	Ph.D. Thailand	Biochemistry		
3	Dr. Samira Khaliq	Assistant Professor	Ph.D. UK	Cell & Molecular Biology		
4	Dr. Noor Hassan	Assistant Professor	Ph.D. Sweden	Biochemistry		
5	Dr. Aamir Rasool	Assistant Professor	Ph.D. China	Biochemistry		
6	Mr. Zia-ur-Rehman	Assistant Professor	M.S, Thailand	Biochemistry		
7	Ms. Nazima Yousaf Khan	Assistant Professor	M.Phil. UoB	Biochemistry		
		Lecturers				
1	Mr. M. Sharif Jamali	Lecturer	M.Sc. QAU Islamabad	Biochemistry		
2	Mr. Mohammad Hashim Jan	Lecturer	M.Sc.UoB	Biochemistry		
3	Mrs. Pari Gul	Lecturer	M.Phil. University of Lahore	Biochemistry		
4	Dr. Sharif Hasni	Lecturer	Ph.D. Sweden	Biochemistry		
5	Ms. Shahida Hussain	Lecturer (on Study Leave)	M.Sc. QAU Islamabad	Biochemistry		

# 5. Programs of Study

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

This comprises of 4 years program under the annual system with a total of 1600 Marks. In the first 3 years, Chemistry, Microbiology, Biotechnology, Biochemistry and other minor subjects are taught. In the 4<sup>th</sup> year that is final year, students are given the choice to either opt for specialization in Biochemistry or Biotechnology.

# 6. Description of Courses

Sem 1	Sem 2	Sem 3	Sem 4	Sem 5	Sem 6	Sem 7	Sem 8
English I Credits 3	English II Credits 3	Basic biochemistry Credits 3	Advance biochemistry Credits 3	Biosafety and ethics Credits 3	Biostatistics Credits 3+1	Proteomics Credits 3+1	Advance Biotech OR Advance Biochem Credits 3+1
Islamiat Credits 3	Maths Credits 3	Enzymology Credits 3+1	Basic Molecular biology Credits 3+1	Advance molecular biology Credits 3+1	Cell-bio Credits 3+1	Cell- signalling Credits 3	Bio- engineering OR Clinical biochemistry Credits 3+1
Organic chemistry Credits 3+1	Pak- studies Credits 3	Bio-Analytical Credits 3+1	Techniques in Bio-Analytical Credits 3+1	Endocrinology Credits 3	Bioinformatics Credits 3+1	Research methodology Credits 3	Seminar/quiz (Both) Credits 3
Haematology Credits 3+1	Bio- Organic Credits 3+1	Environmental biology Credits 3	Basic Biotechnology Credits 3+1	Immunology Credits 3	Genomics Credits 3+1	rDNA technology credits 3	Research (Both) Credits 4
Food and Nutrition Credits 3+1	Microbiology Credits 3+1	Biomolecules Credits 3+1		Current trends in Biotech Credits 3+1			
18	17	18	15	17	16	13	15
Total credits	18+17+18+15+17+16+13+15=129						

# **Eligibility:**

F.Sc. (Pre-Medical)/A-Levels with Chemistry & Biology Written test and interview to be qualified with 45% marks.

## 1. 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.

- **1.1 Internet Facility.** Internet net facility is available in the laboratories.
- **1.2 Computer Laboratory.** A Computer laboratory equipped with 25 Pentium 4 units connected to the internet is available.
- **1.3 Teaching Labs**. Three well equipped and modern labs., along with supporting staff are available for conducting practicals for BS and M.Sc program.
- **1.4 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.
- **Departmental Library**. A newly constructed departmental library with approximately 3000 books and scientific journals available for the students.

## 1. ACHIEVEMENTS:

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.

## 1. FUTURE PLANS:

- 1.1 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: Biochemistry & Molecular Biology, Biotechnology and Bioinformatics, Biochemical Parasitology, Drugs Development, and Clinical Biochemistry.
- 1.2 To achieve this, we have already embarked upon the strengthening of our faculty and inservice 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 andreemerging 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.</b> #	Name	Designation	Qualification	Field of
1	Dr. Abdul Malik Tareen	Assistant Professor Chairperson	Ph.D	<b>Specialization</b> Microbiology
2	Mr. Abdul Wadood	Assistant Professor	M.Phil	Microbiology
3	Mr. M. Khanzeb (on Leave)	Lecturer	M.Sc	Microbiology
4	Dr. Ali Akbar	Assistant Professor	Ph.D	Biochemistry
5	Mr. Shabir Ahmed Khan	Lecturer	M.Phil	Microbiology
6	Dr. Kaleemullah Mandokhail	Associate Professor	Ph.D	Microbiology
7	Mr. Imran Nawaz Bugti	Assistant Professor	Ph.D	Biotechnology
8	Dr. Fazal ur Rehman	Assistant Professor	Ph.D	Microbiology
9	Mr. Mohammad Yasir (Leave)	Lecturer	M.Phil	Microbiology
10	Ms. Hasina Wali (on Leave)	Lecturer	M.Sc	Microbiology
11	Ms. Rozina Rashid	Lecturer	M.Sc	Microbiology
12	Mr. Abdul Manan (on Leave)	Lecturer	M.S	Biotechnology
13	Mr. Mumtaz	Assistant Professor	M.Phil	Microbiology

# 5. Programs of Study

- 5.1. **BS (4 years)** (eligibility)
  - 5.2.2. F.Sc Pre-Medical.
  - 5.2.3. Written test and interview to be qualified with 45% marks.
  - 5.2.4. The minimum qualifying CGPA for BSdegree 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	Semester II
English-I	English-II
Pakistan Studies	Islamic Studies
Mathematics-I	Mathematics-II
Microbiology-I	Microbiology-II
Human Physiology-I	Human Physiology-II
Biochemistry-I	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 buy 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.



# Faculty of Pharmacy & Health Sciences

- 1). Doctor of Pharmacy (Pharm-D) 5 years
- 2). Doctor of Physical Therapy (DPT) 5 years
- 3). Bachelor of Eastern Medicine & Surgery (B.E.M.S.) 5 years















# FACULTY OF PHARMACY & HEALTH SCIENCES

# 1. INTRODUCTION

- 1.1 Pharmacy is the health profession that links the health sciences with the chemical sciences, and it is charged with ensuring the safe use of medication. The scope of Pharmacy practice includes more traditional roles such as compounding and dispensing medications, and it also includes more modern services related to patient care, including clinical services, reviewing medications for safety and efficacy, and providing drug information.
- 1.2 The significance of Pharmacy profession and the role of Pharmacists in uplifting health care system have been well established and acknowledged all over the world. The Pharmacy profession is well known as a "Life Saving Profession". The major emphasis of the World Health Organization (WHO) in the developing countries is to provide prompt and economical means for caring human health. This noble task cannot be achieved without Pharmacists because they are the only ones who know about drugs and related substances.
- 1.3 Faculty of Pharmacy was established in 1980 and due to high demand of its graduates; it is one of the most sought after discipline. It is very well staffed and equipped. Due to its high standard it is recognized by Pakistan Council of Pharmacy.

# 2. OBJECTIVES

- 2.1 To prepare professional and focused pharmacists for the provision of high level pharmacy services in a range of services.
- 2.2 To provide an opportunity to students to acquire specialized knowledge and skills in pharmacy practice.
- 2.3 To provide qualified and focused professionals in the subject of pharmacy to meet the needs of health care system, clinical pharmacy, industry and society.
- 2.4 To prepare researchers to meet the needs of industry and research organization as community pharmacist, science and technology.
- 2.5 To impart knowledge of major disciplines of pharmacy, enabling the students to understand the principles of organization and inter-relationship in health with particular references to pharmacy.
- 2.6 To teach different methods for exploration, investigation, organization formulation of data and its utilization in practical life, particularly in health field.
- 2.7 To equip students with knowledge and skill for better planning and management of Hospital Pharmacy, Clinical Pharmacy, Community Pharmacy and Health Medicine.
- 2.8 To provide education programs, which encourage students to think creatively Medical Sales Officer, Medical Sales Representative etc.

#### 1. FACULTY OF PHARMACY

The faculty will comprise of the following departments with Faculty members and relevant subjects:

## 1.1 DEPARTMENT OF PHARMACEUTICS:

S. #	Name	Designation	Qualification
1	Mr. Ghulam Razaque Shahwani	Chairperson / Asstt: Prof.	B-Pharm, M.Phil, Ph.D (Reg)
2	Dr. Naheed Haque	Assistant Professor	M.Phil, Ph.D
3	Dr. Syed Umer Jan	Assistant Professor	B-Pharm, M.Phil, Ph.D
4	Mrs. Tahmina Rabani	Assistant Professor	B-Pharm, M.Phil, Ph.D (Reg)
5	Dr. Qaiser Iqbal	Assistant Professor	Pharm-D, M.Phil, Ph.D (Reg)
6	Ms. Mahira Tabasum	Lecturer	B-Pharm, M.Phil, Ph.D (Reg)
7	Dr. Ghulam Mustafa Shahwani	Lecturer	Pharm-D, M.Phil, Ph.D (Reg)
8	Dr. Abdullah	Lecturer	Pharm-D, M.Phil, (Reg)

## **SUBJECTS**

- 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)

# 1.2 DEPARTMENT OF PHARMACEUTICAL CHEMISTRY:

S. No	Name	Designation	Qualification	
1	Mr. Nisar Ahmed Shahwani	Chairperson/	B-Pharm, M-Phil, Ph.D	
		Assistant Professor	(Reg)	
2	Ms. Ayesha Khalid	Lecturer (on Deputation	B-Pharm, M.Phil	
3	Dr. Gul Muhammad	Lecturer	Pharm.D, M.Phil (Reg)	
4	Dr. Almas Kanwal	Lecturer	Pharm.D, M.Phil (Reg)	

## **SUBJECTS**

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

# 1.3 DEPARTMENT OF PHARMACOGNOSY:

S. No	Name	Designation	Qualification
1	Mrs. Bushra Aziz Khan	Chairperson/	M.Sc, M-Phil, Ph.D
		Assistant Professor	(Reg)
2	Dr. Shafi Mohammad	Assistant Professor	B-Pharm, M-Phil, Ph.D

# **SUBJECTS**

- Pharmacognosy-I (Basic)
- ➤ Pharmacognosy-II (Advanced)

# 1.4 DEPARTMENT OF PHARMACOLOGY:

S. No	Name	Designation	Qualification
1.	Prof; Dr. Javeid Iqbal	Professor/Dean	M.Phil, PhD
2.	Mr. Abdul Aziz Khan	Assistant Professor	B-Pharm, M-Phil, Ph.D (Reg)
3.	Mr. M. Younis	Chairperson/ Assistant Professor	B-Pharm,M-Phil, Ph.D (Reg)
4.	Dr. Marvi Baloch	Assistant Professor	Pharm.D,M-Phil, Ph.D (Reg)
5.	Dr. Zainab	Lecturer (on study leave)	Pharm-D M-Phil (Reg)
6.	Dr. Ahmed Tokhai	Lecturer (on study leave)	Pharm-D M-Phil (Reg)
7.	Mr. HaroonArshad	Lecturer (on Deputation)	B-Pharm, M-Phil
8.	Dr.FariaKhursheed	Lecturer	Pharm-D, M-Phil,PhD (Reg)

# **SUBJECTS**

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

# 1.5 DEPARTMENT OF PHARMACY PRACTICE:

S. No	Name	Designation	Qualification	
1	Dr. Noman-ul-Haq	Chairperson/	B-Pharm, M-Phil, MBA,	
1	Di. Noman-ui-Haq	Assistant Professor	Ph.D	
2	Dr. Fahad Saleem	Lecturer	B-Pharm, M-Phil MBA,	
		Lecturer	Ph.D	
3	Dr.Salma Malik	Lecturer	B-Pharm, M-Phil, Ph.D	
3	Di.Saima Wank	(on study leave	B-1 Harm, WI-1 HH, 1 H.B	
4	Mr.Nafees Ahmed	Lecturer	B-Pharm, M-Phil, Ph.D	
-	Wii.ivaices Aimieu	(on study leave	(Reg)	
5	Dr. Abdul Hadi	Lecturer	Pharm.D, M.Phil (Reg)	
	Di. Hoddi Hadi		Thannes, with mi (reg)	
6	Dr. Muhammad Shoaib	Lecturer	Pharm.D, M.Phil (Reg)	
	Di. Wananina Shoare		i i i i i i i i i i i i i i i i i i i	
7	Dr. M. AleemAkhter	Lecturer (Attached	B-Pharm, M-Phil , Ph.D	
,	Di. Wi. I Hoomi Ikitoi	to CASVAB)		

#### **SUBJECTS**

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

#### 5. Rules of Pharm-D Five Years

The course is conducted according to the rules of Pharmacy Council of Pakistan.

- 5.1. No student shall be allowed to sit in the next Professional Examination with out passing the previous Prof. Examination in all subjects.
- 5.2. Any student who fails to pass the 1st Prof. Examination in five chances shall cease to pursue further Pharmacy Education.
- 5.3. 40% of the written exam shall consist multiple choice questions and the rest 60% of short structured essays, extended essays.
- 5.4. A student who appears for exam in any subject and passes in theory but fails in practical or vice versa shall reappear only in theory or in practical in which he fails.

#### 6. Eligibility

- 6.1. F.Sc Pre-Medical
- 6.2. The candidate has to appear for the entry test conducted by NTS & qualify on merit.

#### 7. Programs of Study

- 7.1 Doctor of Pharmacy, 5 years morning and Self Supporting Evening Program
- 7.2 Doctor of Pharmacy, one year evening condense program
- 7.3 M.Phil in Pharmacy Practice, Pharmacology, Pharmacognosy, Pharmaceutical Chemistry, Pharmaceutics.
- 7.4 Ph.D in Pharmacy Practice, Pharmacology, Pharmacognosy, Pharmaceutical Chemistry, Pharmaceutics.

#### 8. Description of Courses

- 8.1 Duration; Five Years. Each year terminates to a Professional Examination. The subjects in each professional year are approved by the Pharmacy Council of Pakistan. Higher Education Commission (HEC) and World Health Organization (WHO).
- 8.2 In addition, 1 year condense course is also offered to those pharmacists who have already graduated from Faculty of Pharmacy, University of Balochistan for the up gradation of B-Pharmacy into Doctor of Pharmacy.
- 8.3 Course of Doctor of Pharmacy 5 years Morning & Self Supporting Evening Program

#### 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 th 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.

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

# 1st Professional Pharm.D.

1st Semester			2nd Semester	r	
Course No.	Subject	Cr. Hr.	Course No.	Subject	Cr. Hr.
ENG 300	English-A (Functional English)	2	ENG 301	English-B (Communication &	4
PHARM 310	Pharmaceutics-IA	3+1		Writing skills)	
	(Physical Pharmacy)		PHARM 315	Pharmaceutics-IB	3+1
PHARM 311	Pharmaceutical	3+1		(Physical Pharmacy)	
	Chemistry-IA (Organic)		PHARM 316	Pharmaceutical	3+1
PHARM 312	Pharmaceutical Chemistry-IIA	3+1		Chemistry-IB (Organic)	
	(Biochemistry)		PHARM 317	Pharmaceutical	3+1
PHARM 313	Physiology-A	3+1		Chemistry-IIB (Biochemistry)	
PHARM 314	Anatomy & Histology	3+1	PHARM 318	Physiology-B	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
	Pharmaceutics-IIA (Dosage Form Science)	3+1	PHARM 415	Pharmaceutics-IIB	3+1
PHARM 411	Pharmaceutical Microbiology	3+1	PHARM 416		3+1
PHARM 412	& Immunology) Pharmacology and	3+1	PHARM 417	Microbiology & Immunology Pharmacology and	3+1
PHARM 413	Therapeutics-IA Pharmacognosy-IA (Basic)	3+1	PHARM 418	, , ,	3+1
PHARM 414	Pharmacy Practice-IA Pharmaceutical Mathematics)	3	PHARM 419	Pharmacy Practice-IB (Bio-statistics)	3
Total Cr. 22 Total Cr. 21					21

#### 3rd Professional Pharm.D.

1st Semester			2nd Semester		
Course No.	Subject	Cr. Hr.	Course No.	Subject	Cr. Hr.
PHARM 510	Pharmacy Practice-IIA	3+1	PHARM 515	Pharmacy Practice-IIB (Community,	3
PHARM 511	(Dispensing Pharmacy) Pharmaceutical Chemistry-IIIA (Pharmaceutical Analysis)	3+1	PHARM 516	Social & Administrative Pharmacy Pharmaceutical Chemistry-IIIB (Pharmaceutical Analysis)	3+1
PHARM 512	, · · · · · · · · · · · · · · · · · · ·	3+1	PHARM 517	Pharmacology and	3+1
PHARM 513	, , , ,	• •		Therapeutics-IIB Pharmacognosy-IIB (Advanced) Pharmacy Practice-III	3+1
PHARM 514	Pathology	3+1		(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 Clinical Pharmacy-II)	3+1	PHARM 716	(Advanced Clinical Pharmacy-II)		
PHARM 712	Pharmacy Practice-VIIA (Forensic Pharmacy)	3	PHARM 717	Pharmacy Practice-VIIB (Forensic Pharmacy)	3	
PHARM 713	`	3	PHARM 718	(Pharmaceutical Management	3	
PHARM 714	Pharmaceutical Chemistry-IVA (Medicinal Chemistry)	3+1	PHARM 719	& Marketing) Pharmaceutical Chemistry-IVB (Medicinal Chemistry)	3+1	
	Total Cr. 18 Total Cr. 18					

### Phamr.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)**

#### DOCTOR OF PHYSIOTHERAPY (DPT)

Physiotherapy is a healthcare profession aimed at changing and improving the mobility, physical independence and quality of life. It focuses on treating a variety of conditions including but not limited to Musculoskeletal, Neurological, Cardio-Respiratory, Pediatrics, Geriatrics, Women Health and Sports Injuries.

Physiotherapists work with patients varying in age, athletic ability and activity level, and are responsible for treating a wide spectrum of health conditions – both acute & chronic.

Physiotherapy diagnosis is based on principles of clinical decision making through examination, evaluation, prognosis, interventions and outcome evaluation. They are an important part of healthcare team, who work directly with the patients ensuring their recovery after surgery, injury, fracture or other acquired disability. Patients suffering from chronic conditions such as Diabetes, Heart Disease, Arthritis, Joint Pain, Cancer and Neurological disorder like Parkinsonism and Stroke also require consult from a trained Physiotherapist.

People who want to adopt Physiotherapy & Rehabilitation as a career are required to go through a 5 year Doctor of Physiotherapy [DPT] program.

Doctor of Physiotherapy is a highly respected and sought after professional degree the world over. With the world wide population increasing steadily, DPT is one those of those qualifications that will remain in high demand the world over for years to come.

#### ROLE OF PHYSIOTHERAPISTS IN MODERN HEATHCARE

Physiotherapists are an important part of healthcare team, educated and clinically trained to perform a number of special tests and measures to assess any physical impairment or dysfunction, and identifying the underlying pathology and functional limitations. They provide a physical therapy diagnosis listing the impairments and limitations which may impact quality of life, formulate an effective interventional plan based on short term or long term goals to prevent disability, promote health & wellness and maximize the physical functioning.

#### **CAREER AS A PHYSIOTHERAPIST**

- Teaching at Colleges/Universities
- 2. Public Sector (Physiotherapist 17 scale jobs)
- 3. Private Hospitals
- 4. Private clinics
- 5. Physical Medicine & Rehabilitation centers
- NGOs
- 7. Aid Agencies & organizations
- 8. Sports clubs & teams
- 9. Researchers
- 10. Medical Technology companies
- 11. International job placements

#### **FACULTY MEMBERS**

S.No.	Name	Designation	Qualification
01	Ghulam Razaque Shahwani	Chairperson	M.Phil ,Ph.d. ( <b>Regd</b> )
02	Dr.M.Masood	Visiting Lecturer	Pharm-D, Physiotherapy
03	Dr. Rabbia Naseer Ahmad	Visiting Lecturer	DPT
04	Dr. Aadil Ameer Ali	Visiting Lecturer	PPDPT (M.Phil)

#### EDUCATIONAL OBJECTIVES & GOALS:

- Demonstrate knowledge of the theoretical basis of physical therapy.
- Demonstrate clinical competency in evaluation, treatment planning and implementation.
- Integrate knowledge of basic sciences and physical therapy in order to modify treatment approaches that reflect the breadth and scope of physical therapy practice.
- Integrate the use of basic principles of research in critical analysis of concepts and findings generated by self and others.
- Actively recognize the rights and dignity of individuals in planning and administering programs of care.
- Identify with and contribute to the aims and ideals of the profession.
- Function as competent physical therapists in any health care setting.
- Demonstrate command of knowledge which is necessary to function as an independent problem solver and learner in the practice environment.
- Practice in an ethical and legal manner.

Although the Program realizes that not all students will reach the same level of competence, all students will achieve minimum level of competencies and will achieve higher levels in some areas depending on their selection of specialty and interest options. The curriculum will prepare graduates to take the state licensure examination. Successful completion of this examination is necessary for licensure in all jurisdictions.

#### **SKILLS:**

The graduates of this program will be prepared to:

- communicate effectively
- demonstrate professional behaviors
- demonstrate sensitivity to cultural and individual differences
- demonstrate effective clinical decision making skills
- effectively educate others
- demonstrate commitment to personal and professional growth
- effectively determine client needs based on elements of patient/client management
- efficiently and effectively develop and implement an appropriate plan of care and intervention
- actively participate in management, consultative, and research activities

#### **ELIGIBILITY:**

- F.Sc. Pre-Medecal
- The Candidate has to Qualify the Entry Test and qualify on merit.

#### **FACILITIES:**

- WELL EQUIPED OUT DOOR PATIENT DEPARTMENT
- > FURNISHED LABORATORIES.
- CLINICAL ROTATIONS TO DIFFERENT HOSPITALS.

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

SEMESTER/YEAR	NAME OF THE SUBJECT	CREDITS
	FIRST PROFESSIONAL YEAR	
FIRST	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)
		18
SECOND	ANATOMY-II	4(3-1)
	PHYSIOLOGY-II	3(2-1)
	KINESIOLOGY-II	3(2-1)
	ENGLISH-II (COMMUNICATION SKILLS)	3(3-0)
	ISLAMIC STUDIES / ETHICS	2(2-0)
	BIOSTATISTICS-II / UNIVERSITY OPTIONAL	3(3-0)
		18
	SECOND PROFESSIONAL YEAR	
THIRD	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)
		17
FOURTH	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)
		17

SEMESTER/YEAR	NAME OF THE SUBJECT	CREDITS
	THIRD PROFESSIONAL YEAR	
FIFTH	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 CLINICALPRACTICE-I	3(0-3)
SIXTH		18
	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 &	3(3-0)
	COMMUNITY MEDICINE	
	SUPERVISED CLINICAL PRACTICE-III	3(0-3)
		17
	FOURTH PROFESSIONAL YEAR	
SEVENTH	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 &	2(2-0)
	COMMUNITY BASED REHABILITATION	,
	SUPERVISED CLINICAL PRACTICE-III	3(0-3)
		17
EIGHT	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)
		18
NINTH	CARDIOPULMONARY PHYSICAL THERAPY	3(2-1)
	EMERGENCY PROCEDURES & PRIMARY	2(2-0)
	CARE IN PHYSICAL THERAPY	, ,
	CLINICAL DECISION MAKING &	3(3-0)
	DIFFERENTIAL DIAGNOSIS	, ,

SEMESTER/YEAR	NAME OF THE SUBJECT	CREDITS
	SCIENTIFIC INQUIRY & RESEARCH	3(2-1)
	METHODOLOGY	
	PROFESSIONAL PRACTICE (LAWS, ETHICS	2(2-0)
	& ADMINISTRATION)	
	INTEGUMENTARY PHYSICAL THERAPY	2(2-0)
	SUPERVISED CLINICAL PRACTICE-V	3(0-3)
		18
TENTH	OBSTETRICS & GYNAECOLOGICAL	2(2-0)
	PHYSICAL THERAPY	
	PAEDIATRIC PHYSICAL THERAPY	2(2-0)
	GERONTOLOGY & GERIATRIC PHYSICAL	2(2-0)
	THERAPY	
	SPORTS PHYSICAL THERAPY	2(2-0)
	SUPERVISED CLINICAL PRACTICE-VI	4(0-4)
	RESEARCH PROJECT	6
		18
	TOTAL CREDITS	175

#### 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 **Clinical:** one credit hour shall be equal to three hours of clinical work per week throughout the semester
  - 2.4 **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.

# **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 practioners Tabibs 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:**

S.No	Name	Designation	Qualification
1	Mr.Shafi Mohammad	Chairperson/ Assistant Professor	B.Pharm, M.Phil, Ph.D
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 )protioners 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 bee 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.
- Fraching 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.
- F.Sc Pre-Medical
- The candidate has to appear for the entry test conducted by NTS & qualify on merit.

# SUBJECTS FIRST PROFESSIONAL

	First Semester		
i)	Anatomy (TASHREEH-AL-BADAN)-I		
ii)	Physiology (ILMUL-AFAAL)-I		
iii)	Biochemistry (HAYATI-KIMYA)-I		
iv)	Principles of Eastern Medicine (KULLIYAT-FIL-TIBB)-I		
v)	History of Eastern Medicine (TAREEKH-E-TIBB)-I		
vi)	Islamic Studies/Ethical Behavior (ISLAMIYAT/IKHLAQIAT)		
	Second Semester		
i)	Anatomy (TASHREEH-AL-BADAN)-II		
ii)	Physiology (ILMUL-AFAAL)-II		
iii)	Biochemistry (HAYATI-KIMYA)-II		
iv)	Principles of Eastern Medicine (KULLIYAT-FIL-TIBB)-II		
v)	History of Eastern Medicine (TAREEKH-E-TIBB)-II		
vi)	Pakistan Studies (MUTALYAI PAKISTAN)		
	SECOND PROFESSIONAL		
	Third Semester		
i)	Anatomy (TASHREEH-AL-BADAN)-III		
ii)	Physiology (ILMUL-AFAAL)-III		
iii)	Biochemistry (HAYATI-KIMYA)-III		
iv)	Principles of Eastern Medicine (KULLIYAT-FIL-TIBB)-III		
v)	Pharmacognosy (ADVIAH SHANASI)-I		
	Fourth Semester		
i)	Anatomy (TASHREEH-AL-BADAN)-IV		
ii)	Physiology (ILMUL-AFAAL)-IV		
iii)	Biochemistry (HAYATI-KIMYA)-IV		
iv)	Principles of Eastern Medicine (KULLIYAT-FIL-TIBB)-IV		
v)	Pharmacognosy (ADVIAH SHANASI)-II		
vi)	Bioinformatics (HAYATIATI MALUMAT)		
	THIRD PROFESSIONAL		
	Fifth Semester		
i)	Pharmacy (DAWASAZI)-I		

ii)	Pathology (ILMUL AMRAZ)-I
iii)	Materia Medica (ILMUL ADVIAH)-I
iv)	Pharmacognosy (ADVIAH SHANASI)-III
v)	Mualijat (Medicine)-I
vi)	Community Medicine (SAMAJI TIBB)
,	Sixth Semester
i)	Pharmacy (DAWASAZI)-II
ii)	Microbiology & parasitology (ILM-E-KHURD-HAYATIYAT)
iii)	Materia Medica (ILMUL ADVIAH)-II
iv)	Pharmacognosy (ADVIAH SHANASI)-IV
v)	Mualijat (Medicine)-II
vi)	Forensic Medicine & Toxicology (TIBB-E-QANOON-VA-ILMUL-SAMOON)
	FOURTH PROFESSIONAL
	Seventh Semester
i)	Pathology (ILMUL AMRAZ)-II
ii)	Surgery (ILMUL-JARAHAT)-I
iii)	Materia Medica (ILMUL ADVIAH)-III
iv)	Gynaecology (ILMUL VILADAT-VA-AMRAZ-E-NISWAN)-I
v)	Mualijat (Medicine)-III
vi)	Clinical Psychology & Psychiatry (SARIRYATI ILMUL-NAFS
	WA AMRAZ-E-NAFSANIAH)
	Eight Semester
i)	Pathology (ILMUL AMRAZ)-III
ii)	Surgery (ILMUL-JARAHAT)-II
iii)	Materia Medica (ILMUL ADVIAH)-IV
iv)	Gynaecology (ILMUL VILADAT-VA-AMRAZ-E-NISWAN)-II
v)	Mualijat (Medicine)-IV
	FINAL PROFESSIONAL
	Ninth Semester
i)	Paediatrics (AMRAZ-E-ATFAL)-I
ii)	Ophthalmology (ILM UL AIN)

iii)	Obstetrics (ILMUL VILADAT-VA-AMRAZ-E-NISWAN)-I	
iv)	Surgery (ILMUL-JARAHAT)-III	
v)	Clinical Diagnostics (SARIRYATI TASHKHEES)-I	
vi)	Mualijat (Medicine)-V	
	Final Year Project (F.Y.P)	
	Tenth Semester	
i)	Paediatrics (AMRAZ-E-ATFAL)-II	
ii)	ENT (AMRAZ-E-UZUN. ANAF VO HALAQ)	
iii)	Obstetrics (ILMUL VILADAT-VA-AMRAZ-E-NISWAN)-II	
iv)	Surgery (ILMUL-JARAHAT)-IV	
v)	v) Clinical Diagnostics (SARIRYATI TASHKHEES)-I	
vi)	Mualijat (Medicine)-VI	

**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.



# Faculty of Earth & Environmental Sciences

- 1) BS. (Geology) 4 years program
- 2) BS. (Renewable Energy) 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<sup>th</sup> 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 asses 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 organization: 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.

**Irrigation Department** 

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.

#### 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 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.

S. #	Name	Designation	Qualification	Specialization
1	Dr. Muhammad Ibrahim Baloch	Associate Professor <b>Chairperson</b>	Ph. D (Ukraine)	Hydrogeology
2	Mr. Muhammad Ayub Baloch	Assistant Professor	M. Phil U.O.B	Igneous & Meta Morphic Petrology
3	Mr. Din Muhammad Kakar	Assistant Professor	M. Phil U.O.B	Earth quick Studies
4	Mr. Nasir Karim	Assistant Professor	M. Sc U.O.B	Hydrogeology
5	Mr. Rahim Jan	Assistant Professor	M. Phil U.O.B	Sedimentology
6	Dr. Mohibullah	Assistant Professor	Ph. D (UK)	Biostratigraphy
7	Mr. Rahim-ud-Din Tareen	Assistant Professor	M. Phil U.O.B	Clastic Sedimentology
8	Mr. Tahir Iqbal	Assistant Professor	M. Phil U.O.B	Clastic Sedimentology
9	Ms. Shazia Fareed	Assistant Professor	M. Phil U.O.B	Geo-Physics
10	Mr. Aminullah	Assistant Professor	M. Phil U.O.B	Sedimentology

#### 5. Programs of Study

#### 5.1 **BS 4 year applied Geology**

5.1.1. Duration: BS applied Geology 4 year Program have been started under Semester System from 2016.

#### 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.

#### **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

	SEMESTER - I					
S.No.	Course Code	Title of Course	Credit Hours	Total Marks of Each Course		
1	Eng. 301	English-I	3+0	100		
2	Isl.St/Eth 302	Islamic Studies/ Ethics	2+0	50		
3	Math: 303	Mathematics-I	3+0	100		
4	Phy. 304	Physics-I	2+1	100		
5	Chem. 305	Chemistry-I	2+1	100		
6	Geol. 306	General Geology	2+1	100		
	Total	-	17	550		

	MARGINA - 1 1					
S.No.	Course Code	Title of Course	Credit	Total Marks of		
	Course Code	Tute of Course	Hours	Each Course		
1	Eng: 307	English-II	3+0	100		
2	Pak.Std: 308	Pakistan Studies	2+0	50		
3	Math:309	Mathematics-II	3+0	100		
4	Phy:310	Physics-II	2+1	100		
5	Chem:311	Chemistry-II	2+1	100		
6	Geol:312	Geomorphology	2+1	100		
	Total		17	550		

SEMESTER – III					
S.No.	Course Code	Title of Course	Credit Hours	Total Marks of Each Course	
1	Bot;401	Botany	2+1	100	
2	Math:402	Mathematics-III	3+0	100	
3	Phy:403	Physics-III	2+1	100	
4	Chem:404	Chemistry-III	2+1	100	
5	Geol:405	Paleontology	2+1	100	
6	Geol:406	Stratigraphy	2+1	100	
	Total		18	600	

	SEMESTER – IV					
S.No.	Course Code	Title of Course	Credit Hours	Total Marks of Each Course		
1	Zool:407	Zoology	2+1	100		
2	Comp:Stat: 408	Computing & Geostatistics	2+1	100		
3	Phy:409	Physics-IV	2+1	100		
4	Chem:410	Chemistry-IV	2+1	100		
5	Geol:411	Crystallography, Optical Mineralogy & Petrography	2+1	100		
6	Geol:412	Geological Field Work-I	2+1	100		
	Total		18	600		

SEMESTER –V				
S.No.	Course Code	Title of Course	Credit Hours	Total Marks of Each Course
1	Geol:501	Geo-Tectonics	2+1	100
2	Geol:502	Structural Geology	2+1	100
3	Geol:503	Sedimentology	2+1	100
4	Geol:504	Sequence Stratigraphy	2+1	100
5	Geol:505	Mineralogy	2+1	100
6	Geol:506	Igneous & Metamorphic Petrology	2+1	100
	Total		18	600

SEMESTER –VI					
S.No.	Course Code	Title of Course	Credit Hours	Total Marks of Each Course	
1	Geol:507	Geophysics	2+1	100	
2	Geol:508	Geochemistry	2+1	100	
3	Geol:509	Petroleum Geology	2+1	100	
4	Geol:510	Field Geology	2+1	100	
5	Geol:511	Economic Geology	2+1	100	
6	Geol:512	Geological Field Work-II	3+0	100	
	Total		18	600	

SEMESTER –VII					
S.No.	Course Code	Title of Course	Credit Hours	Total Marks of Each Course	
1	Geol. 601	Organic Geochemistry	2+1	100	
2	Geol. 602	Environmental Geology	2+1	100	
3	Geol. 603	Engineering Geology	2+1	100	
4	Geol. 604	Hydrogeology	2+1	100	
5	Geol. 605	Micropaleontology & Biostratigraphy	2+1	100	
	Total		15	600	

S.No.	Course Code	Title of Course	Credit Hours	Total Marks of Each Course
1	Geol. 606	Geology of Pakistan	2+1	100
2	Geol. 607	Special Paper, I,II, III (Opt one only)	2+1	100
3	Geol. 608	Thesis	2+1	100
	Total		9	300

**BS 4** year applied Geology Optional Courses

	Optional Courses				
Optional Groups	Subject / Title	Page No.			
Group-I	Mineralogy and Petrology	43			
Group-II	Paleontology and Stratigraphy	46			
Group-III	Economic Geology	48			
Group-IV	Engineering Geology	52			
Group-V	Petroleum Geology	56			
Group-VI	Applied Geophysics	61			
Group-VII	Geochemistry	65			
Group-VIII	Sedimentology	68			
Group-IX	Hydrogeology	71			
Group-X	Industrial Mineralogy	73			
Group-XI	Marine Geology	77			
Group-XII	Environmental Geology	79			
Group-XIII	Structural, Tectonics and Neotectonics	81			

 $\underline{NOTE} : Students \ will \ have \ to \ obtain \ any \ one \ of \ the \ following \ optional \quad course \ / \ subject \ to \ the \ availability \ of \ faculty.$ 

#### 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.

## DEPARTMENT OF RENEWABLE ENERGY

#### 1. Introduction

- It is our privilege that the University of Balochistan offered Renewable Energy Studies first time in the country in the year 2017. The department was inaugurated by Honorable Mr. Ahsan Iqbal, the Federal Minister for Planning, Development and Reforms on 16<sup>th</sup> August 2016.
- Renewable energy is an emerging discipline of sciences and technologies of present day, tuned to harness the available sources of green energy on this planet earth and developing various energy systems. Renewable energy systems are designed to take the energy resources probably the clean and green energy sources.
- Diverse categories of energy resources can be tabbed with renewable energy systems. Designing renewable energy system would require extensive knowledge of sciences probably Physics, Technologies and Engineering.
- The most available sources of energy are solar, wind, tidal, hydel, geothermal, biofuel, nuclear and indeed hydrogen.
- Various energy renewable energy systems have already been used today but require designing compatible to our environment and energy resource requirements of geographical location of the country. This is a mentally requirement to evolve an industry to manufacture diverse energy systems. Skilled and qualified man power have now become a mentally requirement to switch over to alternate sources of energy and save the grid electricity.
- Solar architecture for buildings and its designing solar collectors and reflectors for heating and cooling of air/ water, solar based heating and cooling of building, solar based water pumps, solar geysers, solar refrigerators, solar ponds for Ranking cycle engine for desalination of sea water and producing electricity, photovoltaic devices to producing electricity and many other divers applications and systems utilizations like solar powers thermal stations to producing electricity have now become imperative and alternate source of energy.
- There are many potential locations to tap both solar and wind energy; for producing electricity generally in Pakistan and especially in Balochistan. Savonius, Darrieus and many other wind turbines are commercially available to producing electricity. The costal built in the south and the mountainous regions especially in the north west of Balochistan offer extraordinary potential to tap wind energy. Wind machines for grinding grains water pumping and for many other purposes can also be used in remote agricultural locations.
- Hybrid energy systems like solar-wind- hydrogen, solar based bioenergy, etc. are needed to produce electricity at relatively larger scale. Hydrogen gas filled in some metals like vanadium hydride and titanium hydride serve as fuel cells for combustion engines.
- Needless to mention, self-designed and innovated renewable energy system have to be put into use compatible with our nature resource requirements.
- The department of renewable energy, at present, is offering BS (four years) undergraduate and MS (two years graduate) degree programmes.
- Hardware workshops (Mechanical/ electrical/ electronics, computer, etc.) and renewable energy laborites have already been designed.

#### 2. Objectives

Energy crisis is one of the most important issues in developing countries. The main objective is to motivate and train the students to avail the new sources of energy. The students will serve as master trainers to provide awareness about the use of renewable energy sources from energy systems and get rid of grid electricity which is expensive.

With China Pakistan Economic Corridor (CPEC) it is inevitable to have sufficient energy trained personal to safeguard the energy requirements such as the availability of electricity in every nook and corner of the country. This is why the department of Renewable Energy is essential as source to produce skilled and trained man power for fabrication, manufacturing and system development for renewable energy.

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

Graduates will have the ability to plan projects and facilities for the utilization of renewable energy and to implement them while taking account of economic, political and societal concerns. Thus the curriculum is designed to enable unique career opportunities in the vocational fields of planning, innovation, invention, engineering, consultancy and investment of renewable energy. Our graduates will have ample opportunities to be absorbed in all sectors of industries, organizations, scientific institutions, non-government organizations working for energy development, and especially for diverse CPEC activities.

#### 4. Faculty

S.No.	Name	Designation	Qualification	Field of Specialization
1	Dr. Jafar Khan Kasi	Chairperson/Assistant Professor	PhD	Renewable Energy/ Microelectronics
2	Dr. Ajab Khan Kasi	Associate Professor	PhD	Renewable Energy/ Mechatronics
3	Dr. Muzamil Bokhari	Assistant Professor	PhD	Renewable Energy/ Communication systems

#### 5. Programs of Study

Programme: BS in Renewable Energy

Duration: 4 years Number of semesters: 8

Number of weeks per semester: 16-18 (2 weeks for examinations)

Total number of credit hours: 134

Number of credit hours per semester: 17 (only in 8<sup>th</sup> semester 15 credit hours)

<u>Note:</u> A comprehensive exam will be taken from taught courses before submission

of final project report.

#### 6. Eligibility Criteria

• FSc Pre-Engineering

• A-Level Cambridge

• Should qualify the entry test will be conducted by Department.

# 7. Description/ Scheme of Studies

#### **First Semester**

Course Code	Title of the Course	Credit Hours
RE-411	Introduction to Renewable Energy	3(3-0)
RE-412	Metallurgy & Workshop Practices	3(2-1)
RE-413	Fluid Mechanics	3(2-1)
PHY-414	Applied Physics-1	3(2-1)
MATH-415	Mathematics -I (Calculus)	3(3-0)
IS-416	Islamic Studies or Ethics (for Non-Muslim students)	2(2-0)
	Total Credit hours	17

#### **Second Semester**

Course	Title of the Course	Credit
Code		Hours
RE-421	Thermodynamics	3(3-0)
RE-422	Applied Mechanics	3(2-1)
RE-423	3D Modeling and Simulation	3(1-2)
CHEM-424	Applied Chemistry	3(3-0)
MATH-425	Mathematics -II (Ordinary Differential Equations)	3(3-0)
ENG-426	English Composition and	2(2-0)
	Comprehension	
	Total Credit hours	17(14-3)

#### **Third Semester**

Course Code	Title of the Course	Credit Hours
RE-431	Wind Energy	3(2-1)
RE-432	Heat and Mass transfer	3(2-1)
PHY-433	Applied Physics-II	3(2-1)
EE-434	Circuit Theory	3(3-0)
MATH-435	Mathematics -III (Linear Algebra)	3(3-0)
PST-436	Pakistan studies	2 (2-0)
	Total Credit hours	17

#### **Fourth Semester**

Course	Title of the Course	Credit
Code		Hours
RE-441	Hydro Power Systems	3(3-0)
RE-442	Basic Electronics	3(3-0)
RE-443	Communication & Presentation Skills	3(3-0)
GEO-444	Geological Perspective of Renewable Energy	3(3-0)
MATH-445	Numerical Analysis	3(2-1)
STAT -446	Statistics and Probability	2(2-0)
	Total Credit hours	17

#### **Fifth Semester**

Course	Title of the Course	Credit
Code		Hours
RE-451	Tidal and Geothermal Energy	3(3-0)
RE-452	Energy Storage	3(3-0)
RE-453	Solar Energy	3(2-1)
RE-454	Nanoscience and Energy	2(2-0)
RE-455	Mechatronics	3(2-1)
GEOG-456	Geographical Perspective of Renewable Energy in	3(3-0)
	Pakistan	
	Total Credit hours	17

#### **Sixth Semester**

Course Code	Title of the Course	Credit Hours
	N' 1' 1D' 1D' C 1	
RE-461	Microbial Bioenergy and Biofuel	3(3-0)
RE-462	Hydrogen and Fuel Cells	3(3-1)
RE-463	Power Electronics	3(2-1)
RE-464	RS and GIS for Renewable Energy Resources	3(2-1)
RE-465	Photoactive Materials and Thermal Characterization	3(3-0)
RE-466	Environmental Impact Assessment	2 (2-0)
	Total Credit hours	17

#### **Seventh Semester**

Course	Title of the Course	Credit
Code		Hours
RE-471	Photovoltaic	3(2-1)
RE-472	Nuclear Energy and Diverse Reactors	3(3-0)
RE-473	Digital Electronics	3(2-1)
RE-474	Project Report- I	3(0-3)
RE-475	Professional Ethics	2(2-0)
	<b>Elective Course-I (choose one from the following)</b>	3(3-0)
RE-476	Thin Film Technology And Applications	
RE-477	Solar Passive Architecture	
RE-478	Heating Ventilation and Air Conditioning Systems	
	Total Credit hours	17

#### **Final Semester**

Course	Title of the Course	Credit
Code		Hours
RE-481	Boilers and Power Plant	3(3-0)
RE-482	Power Generation	3(3-0)
RE-483	Project Report- II	3(0-3)
RE-484	Instrumentation and control	3(3-0)
	Elective Course-II (choose one from the following)	3(3-0)
RE-486	New Energy Technologies	
RE-487	Energy Efficient buildings	
RE-488	Fabrication of Solar Cells	
	Total Credit hours	15

#### 8. Facilities

<u>Departmental Library:</u> The departmental Library has been established with wall to wall books shelves and proper sitting arrangements. More than 1000 books covering a wide range of disciplines in Renewable Energy of all study programmes, will be available with the commencement of classes. <u>Computer Lab:</u> The department of Renewable Energy has a full furnished computer lab which has internet services and access to digital library where thousands of journals, proceedings, online books, and magazines can be accessed.

**Basic Laboratories:** Two large laboratories are available in the newly established department. However the equipments are yet to be arranged for BS and MS levels. These labs will be equipped with different practical setups for energy related experiments commensurate to international norms and standards.

**Research Laboratory:** This lab is for M.S and PhD students to perform their research work in renewable energy. The equipments are yet to be arranged for said purpose.

#### 8. Future Plans

- The department shall launch the PhD programme of studies in near future.
- The Energy Research Park will be established in near future in the University of Balochistan. It is mandatory requirement before we embark for our research studies in Renewable energy.



# Faculty of Management Sciences, Business & Information Technology

- 1) BS. (Computer Science) 4 years program
- 2) BS. (Information Technology) 4 years program
- 3) B.Com (Self Finance) 2 years program















# 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 2001and 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.#	Name	Designation	Qualification
1	Mr. Muhammad Khalid Badini	Assistant Professor/ Chairperson	MCS, MS(CS)
2	Dr. Altaf Hussain Bouk	Professor	Ph.D
3	Dr. Atiq Ahmed	Assistant Professor	Ph.D
4	Dr. Ihsan Ullah	Assistant Professor	Ph.D
5	Dr. Waheed Noor	Assistant Professor	Ph.D
6	Dr. Maheen Bakhtyar	Assistant Professor	Ph.D
7	Dr. Junaid Babar	Assistant Professor	Ph.D
8	Dr. Abdul Basit	Assistant Professor	Ph.D
9	Dr. Mir Saadat Baloch	Assistant Professor	Ph.D
10	Mr. Syed Mohammad Zubair	Assistant Professor	MS
11	Mr. Syed Amjad Hussain Jafri	Assistant Professor	M.Sc.
12	Dr. Muhammad Sajid	Lecturer	Ph.D
13	Dr. Muhammad Shumail Naveed	Lecturer	Ph.D
14	Dr. Liaquat Ali	Lecturer	Ph.D
15	Dr. Tayyaba Noreen	Lecturer	M.Com
16	Mr. Imran Ali	Lecturer	MS
17	Mr. Anwar Ali Sanjarani	Lecturer	B.E (CE), MBA

<b>S.</b> #	Name	Designation	Qualification
17	Mr. Anwar Ali Sanjarani	Lecturer	B.E (CE), MBA
18	Ms. Shafaque Saira Malik	Lecturer	MCS
19	Jalaluddin Qureshi	Lecturer	MCS
20	Muhammad Asfandyar	Lecturer	MCS
21	Muhammad Saeed	Lecturer	MCS
22	Azam Khan	Lecturer	MS
23	Imam Dad	Lecturer	MCS
24	Fatima Tariq	Lecturer	MCS

#### 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 resent 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. Eligibility Criteria for Admission.

- 8.1. **BS** (CS)
  - **8.1.1.** HSC (Pre Engineering)/ HSC (Mathematics, Statistics, Computer Science)
  - **8.1.2** GCE O-Levels
- 8.2. BS (IT)
  - **8.2.1.** HSC/ DAE/ F.Sc Medical/ F.A

#### 9. <u>FACILITIES</u>

- 9.1 The Department of Computer Science has three well equipped labs (fully air-conditioned with 90 online workstations)
- 9.2. **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.
- 9.3. **Internet Facility:** The internet facility is also available in all Computer Labs & Teaching Offices. A large number of research journals are also available on Digital Library provided by HEC and research articles of interest can also be downloaded.

#### 9.4. **Computer Labs:**

Name	<b>Equipment / Facilities</b>	Location
LAB.1	30 Core i5 PCs,	Computer Science
	Multimedia Projector, Server,	Building
	LAN, all time Internet	
	connectivity	
LAB 2	35 Core 2 Duo PCs, Multimedia	Computer Science
	Projector, Server (Dual Processor	Building
	Xeon), LAN, all time Internet	
	connectivity	

# BS (Computer Science) Semester 1

CS 308 CS 309 CS 310 CS 311	CS 303 MT 301 CS 302 CS 303	Numerical Computing Introduction to Software Engineering Operating Systems	3 3 4	0 0 0 3+1
CS 309 CS 310	MT 301 CS 302	Numerical Computing Introduction to Software Engineering	3 3	0 0
CS 309	MT 301	Numerical Computing	3	0
		·		311
		Introduction to Detahage Cristoms	1	3+1
Code		Subjects	Credit Hrs	Theory/Lab
		Semester 4		
		Total:	16	
MT 330		Linear Algebra	3	0
CS 307	CS 304	Data Structure and Algorithms	4	3+1
EL 301	001	Basic Electronics	3	o 0
	MT 301			0
CS 306		Digital Logic Design		2+1
Code		Subjects	Credit Hrs	Theory/Lab
		Semester 3		
		Total:	16	
EG 302		Communication Skills	3	0
CS 304		_ I	4	3+1
1			3	0
1				0
		-		0
Code		Subjects	Credit Hrs	Theory/Lab
		Semester 2		
		Total:	17	
1				0
1				0
1				0
				3+1
	requis			3+1
Code				Theory/Lab
	CS 301 CS 302 MT 301 EG 301 PK 301  Code MG 301 CS 303 MT 302 CS 304 EG 302  Code  CS 306 ST 301 EL 301 CS 307 MT 330  Code	CS 301 CS 302 MT 301 EG 301 PK 301  Code  MG 301 CS 303 MT 302 CS 304 EG 302  CS 304 EG 302  CS 306 ST 301 EL 301 CS 307 CS 304 MT 330  CS 304  CS 304  CS 306	Code Requisite  CS 301  CS 302  MT 301  EG 301  PK 301  Code  Code  Code  Code  CS 303  CS 304  CS 304  CS 304  CS 305  CS 306  CS 306  CS 307  CS 307  CS 307  CS 307  CC COde  CS 304  CC S 304  CC S 305  CC S 306  CC S 307  CC S 307  CC S 307  CC S 304  CC S 305  CC S 306  CC S 307  CC S 307  CC S 304  CC S 304  CC S 305  CC S 306  CC S 307  CC S 308  CC S 309  C	Code         Requisite         Hrs           CS 301         Introduction to Computing         4           CS 302         Programming Fundamentals         4           MT 301         Calculus & Analytical Geometry         3           EG 301         Functional English         3           PK 301         Islamic Studies / Pakistan Studies         3           Total:         17           Semester 2           Code         Subjects         Credit Hrs           MG 301         Human Resource Management         3           CS 303         Discrete Structures         3           MT 302         Probability and Statistics         3           CS 304         CS 301         Object Oriented Programming         4           EG 302         Communication Skills         3           Total:         16           Semester 3           Code         Subjects         Credit Hrs           Code         Subject Driented Programming         4           Code         Subjects         Credit Hrs           Digital Logic Design         3           Basic Electronics         3           CS 307         CS 304         Data S

#### Semester 5

			Semester 5		
S.#	Code		Subjects	Credit Hrs	Theory/Lab
21 22 23 24 25 26	CS 313 CS 314 CS 315 CS 316 CS 317 CS 318	CS 310 CS 306 CS 307 CS 306 CS 310 CS 303	Advanced Software Engineering Computer Communication and Networks Design & Analysis of Algorithm Computer Organization & Assembly Language Web Engineering Theory of Automata and Formal languages	3 3 3 4 3	2+1 0 0 2+1 3+1 0
			Total:	19	
			Semester 6		
S.#	Code		Subjects	Credit Hrs	Theory/Lab
27 28 29 30 31	CS 319 SS 301 CS 320 CS 321	CS 306 CS 308	Computer Architecture Economics Distributed Database Systems Elective - I Elective - II	3 3 3 3 3	2+1 0 2+1 0
			Total:	15	
			Semester 7		
S.#	Code		Subjects	Credit Hrs	Theory/Lab
32 33 34 35 36	CS 322 CS 323 CS 324 CS 325		Compiler Construction Operations Research Artificial Intelligence Human Computer Interaction Elective-III	3 3 3 3 3	0 0 0 0
30			Total:	15	
			Semester 8		
S.#	Code		Subjects	Credit Hrs	Theory/Lab
37 38 39 40	CS 327 CS 328		Research methodology Elective-III Elective-IV	3 3 3 3	2+1
41	CS 329		Senior Design Project	6	3+3
			Total:	18	

#### **BS (INFORMATION TECHNOLOGY)**

#### Semester 1

			Total:	16	
16 17 18 20	CS 308 MG 302 CS 310 CS 312		Introduction to Database Systems Organizational Behavior Introduction to Software development Operating Systems	3 3 3 4	3 1
S.No	Code		Subjects	Credit Hrs	Theory/Lab
			Semester 4		
			Total:	16	
15	MT 303	CB 303	Linear Algebra	3	J 1
13 14	EL 301 CS 307	CS 305	Basic Electronics Data Structure and Algorithms	3 4	3 1
12	EG 303		Technical Report Writing	3	
11	CS 306		Digital Logic Design	Hrs 3	2 1
S.No	Code		Subjects	Credit	Theory/Lab
			Semester 3		
			Total:	18	
10	WH 302		1 Tobability and Statistics	3	
9	EG 302 MT 302		Communication Skills Probability and Statistics	3 3	0
7 8	CS 303 CS 305	CS 302		3 4	0 3 1
6	MG 301		Human Resource Manageme Discrete Structures	3	0
S.No	Code		Subjects	Credit Hrs	Theory/Lab
			Semester 2		
			Total:	16	
4 5	EG 301 PK 301		Functional English Islamic Studies / Pakistan Studies	3 3 (1.5+1.5)	$\begin{bmatrix} 0 \\ 0 \end{bmatrix}$
3	MT 301		Calculus & Analytical Geometry	3	0
1 2	IT 301 CS 302		Introduction to IT Programming Fundamentals	3 4	2+1 3+1
S.No	Code		Subjects	Credit Hrs	Theory/Lab

#### Semester 5

			Semester 5		
S.No	Code		Subjects	Credit Hrs	Theory/Lab
21 22 23 24 25 26	IT 303 CS 317	CS 306 CS 307	$\varepsilon$	3 3 3 3 4 3	2 1 3 1
			Total:	18	
		Semester 6			
S.No	Code		Subjects	Credit Hrs	Theory/Lab
27 28 29 30	MG 303 SS 301 CS 320 CS 321		Management information systems Economics Distributed Database Systems Elective - I	3 3 3	2 1
31 32	CS 319	CS 306	Computer Architecture Elective - II	3 3	
			Total:	18	
			Semester 7	-	
S.No	Code		Subjects	Credit Hrs	Theory/Lab
32 33 34 35 36 37	CS 322 CS 323 CS 324 CS 325 CS 326		Operations Research Artificial Intelligence Human Computer Interaction	3 3 3 3 3	
			Total:	18	
			Semester 8		
S.No	Code		Subjects	Credit Hrs	Theory/Lab
38 39 40 41 42	CS 327 CS328	CS 30	Computer Graphics Research methodology Elective - IV Elective IT Project	3 3 3 3 6	3 3

Total:

18

## DEPARTMENT OF COMMERCE

#### Introduction

The Department of Commerce has evolved as one of the flagship departments of University of Balochistan. The department has been instrumental in providing the young learners with a profound understanding of theoretical and practical aspects of the Commerce as a discipline and a real life phenomenon. Since Inception (1973) the department has crossed milestones of its growth and development. Starting with undergraduate studies, the department has gradually built B.Com and M.Com programs. The department unfolds viable educational environment that tend to fester both research and analysis skills of the students. Seminars, debates, dialogues, and workshops have been conducted by the department to develop cadres of quality human resource in the domain of commerce, industry and business at local, national and international levels.

The Department, in keeping with the advances made in different branches of commerce, has revised the curriculum from time to time. The last revision of curriculum has taken place very recently in 2016. Under the new curriculum, the Department has upgraded to the system of semester-based teaching. Currently, M.Com. Program run by the Department both in the Morning and Evening Sessions, offers 19 Core courses 04 Elective / Specialization courses and a Research Project. M.Phil and PhD program have also been structured to cater the need of Balochistan in area of Commerce & Business.

Leadership and faculty of the department are seeking ways to enable the students to be the business leaders, Managers, Entrepreneurs, Auditors, Bankers etc. of tomorrow, this approach would definitely lead students towards their targeted job market and make their way clear towards the destination of professionalism. Alumni record validates that major portion of provincial workforce in the business and banking sectors have already been graduated from Department of Commerce, UOB, either at bachelor levels or Master levels.

#### 2. Vision

The Department intends to be one among the centres of excellence in Commerce and Business Education and Research in the country.

#### 3. Mission

The Department strives to impart quality education in the area of Commerce and Business reinforced by experiential learning administered to students who will play significant and productive roles in the development of the Pakistan's Economy within the global business environment.

#### 3. Goals

To provide updated, well informed and fresh knowledge base through up-dating the curriculum of the study programs so that to meet the leading regional and global challenges and harness the opportunities opening in the wake of China-Pakistan Economic Corridor (CPEC) at national and particularly provincial level.

To develop an environment stemmed in learning and education of the commerce and business for cadres of students from diverse backgrounds so that high quality of human resource could be created through opening study programs of B.S (four year program), M.Com program, M.Phil and PhD programs.

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

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

- Financial Institutions.
- Audit & Accountancy Firms.
- Federal & Provincial Audit Departments.
- Industries & Commerce Department.
- Taxation Management.
- · Banking Sector.
- Entrepreneurship.
- Local and Multinational NGO's.
- Public and Private Sector Organizations.
- Commerce Colleges.

#### 3. Faculty

SR. No.	Name	Designation	Qualification	Area of Interest / Specialization
01.	Prof. Dr. Nadeem Malik	Professor, Dean Faculty of Management Sciences, Business & IT.	Ph.D, M.Com, MA Economics, LL.B Master Trainer	HRM, Strategic HRM, Advance Research Methodology.
02.	Mr. Inayat ullah Khan Durrani	Chairman, Department of Commerce.	M.Com, MPhil	Management, Business Organization, Research Methodology.
03.	Dr. Uzma Mukhtar	Associate Professor	Ph.D	HRM, Strategic Management.
04.	Mrs. Shakira Bukhari	Assistant Professor	M.Com, MPhil	HRM, Management
05.	Dr. Muhammad Shafiq	Lecturer	Ph.D	Finance
06.	Mr. Abdul Quddus	Lecturer	M.Com	
07.	Mrs. Amina Khuda dad	Lecturer	M.Com	Marketing Management, Accounting, HRM
08.	Mr. Dilawar Khan Durrani (on study leave)	Lecturer	MBA, Ph.D (Reg)	Finance
09.	Mr. Syed Jameel Ahmed	Lecturer	MBA, MS (Reg)	HRM, Entrepreneurship
10.	Mr. Kanan Asif	Lecturer	M.Com	Managerial Economics
11.	Ms. Sana Batool	Lecturer	M.Com	Banking & Finance
12.	Ms. Benish Sehar Khalid	Lecturer	M.Com	Organizational Behavior
13.	Mr. M. Masood Babar	Lecturer	M.Com, LL.B	Corporate Law's
14.	Mr. Masood Khan	Lecturer	M.Com	Financial Accounting
15.	Ms. Farheen Mubashir	Lecturer	M.Com, MPhil (Reg)	Project Management
16.	Mrs. Roqia Ismail	Lecturer	M.Com, MS	Cost & Management Accounting

# 4. Program of Study B.Com (Self-Finance):

### **Program Introduction:**

The B.Com is a well-renowned 2 year's degree program crafted for freshmen who aspire to lean to ins and outs of Business & Commerce. The program covers topics like Accounting, Banking & Finance, Economics and Auditing & Taxation etc. The graduates with B.Com degrees can look forward to serve in a variety of settings ranging from Industry, Banking, Planning and development and Financial Institutions.

Moreover the qualification further emphasizes the participant to meet the needs of entering into middle level management for being placed as executives in various departments of the company such as finance, accounting, auditing and taxation.

It will provide you with a fast track to an accountancy qualification.

Currently, the department is offering B.Com in the Evening session on self finance basis with an intent to provide chance to the students who can't avail opportunity to take classes in the morning.

# 5. Eligibility

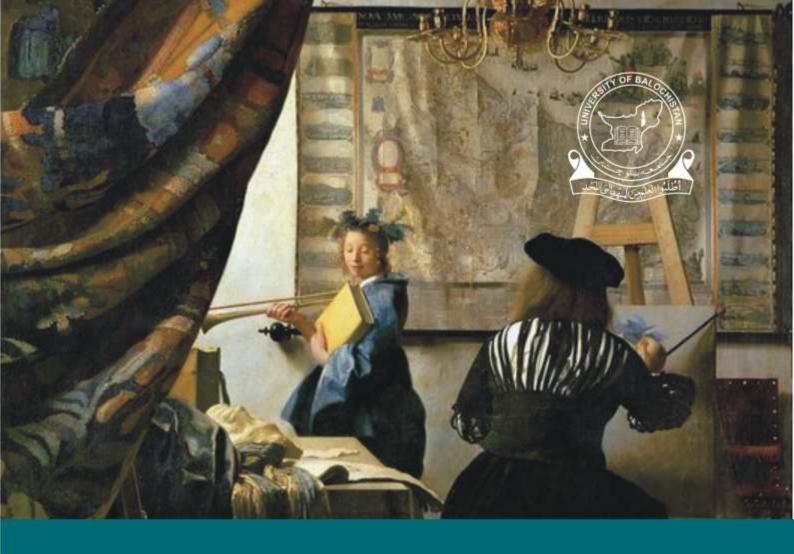
FA, F.Sc, ICS, I.Com

### 6. Course Detail's

Course subjects are divided into two years namely, Previous & Final:

- 1. Business Communication
- 2. Fundamentals of Business
- 3. Business Law
- 4. Banking & Finance
- 5. Principles of Accounting
- 6. Principles of Economics
- 7. Pakistan Studies

- 8. Economics of Pakistan
- 9. Business Mathematics
- 10. Business Statistics
- 11. Cost Accounting
- 12. Advance Accounting
- 13. Auditing & Taxation
- 14. Islamic Education



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

- 1) Fine Arts
- 2) Institute of Education & Research (IER)















# DEPARTMENT OF FINE ARTS

### 1. Introduction

The Bachelor of Fine Arts is a four-year degree program in the Faculty of Arts, blending artistic and professional practice, theory, and research. The degree is offered in the following areas of specialization: Painting, Sculpture, miniature, Film and TV and Graphics arts as well as historical theories of human development through ages.

The Department of fine Arts was Established in march 1984 with four faculty members Mr. jamal shah, Mrs. Faryal Ghouher, Mr. Akram Dost and Mr. Kaleem khan.

The department of Fine Arts is playing very important role in introducing Balochistan 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 culture heritage of Balochistan.

# 2. Objectives

- 1. to develop the individual visual intelligence each student brings with them to the School
- 2. to develop in each student a critical awareness and understanding of fine art and its contexts
- 3. to provide the intellectual and practical resources to enable each student to realize his or her creative potential as a professional artist to produce Art teachers/ good researchers

# 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	Pro. Dr Mohammad Akram dost	Chairperson	Ph.D
		(professor)	
2	Mohammad Ayub	Assistant professor	M.FA
3	Umbreen Faqir Hussain	Assistant professor	BFA
4	syed Mubarak shah	lecturer	BFA
5	Nisar Ahmed	lecturer	BFA
6	Mir jabal	lecturer	M.Phil
7	Zil e Huma	Lecturer	BFA
8	Intekhab umer	Lecturer	BFA

### **Admission Criteria**

The candidate seeking admission to BFA (Fine Arts) Program must meet the following eligibility criteria.

- Qualifying drawing test with at least desirable percentage as decided by the Admission Committee.
- Compulsorily appearing in an interview on the dates/time as scheduled by the university.

# Requirement

- F. Sc, F.A Non-Medical examination securing at least 45% marks in aggregate.
- Intermediate securing at least 45% marks in aggregate
- Any other examination of a foreign university / Institution/ Examining Body equivalent to the higher secondary school certificate.

# **Program of Study**

- 1. The department of art arts provides four year BFA with major areas i.e. painting, sculpture, miniature, graphic arts, musicology, film and TV.
- 2. The topic of thesis is selected by the student themselves, however their skill and and approach is motivated and guided by the jury of the Department at the time when the mini-thesis is displayed.
- 3. The final year student will submit thesis report (research of his selected topic).

# **Duration of Program**

- 1. The programs leading to BFA (Fine Arts) shall be of four years, equally divided into eight semesters.
- 2. Each semester shall consist of four and half months, four months for teaching and two weeks for the preparation and the conduct of examination.

### Courses for B.F.A

### Semester 1

Subject Area	Course Code	<b>Course Description</b>	Cr. H
	L	ectures	
FINE ARTS	BF-607	Visual Arts	2+0
Humanities	Eng-601	English-I	2+0
Humanities	IS1-604	Pakistan studies	2+0
	S	tudios	
FINE ARTS	BF-608	Drawing-I	0+3
FINE ARTS	BF-609	Design-I	0+3
FINE ARTS	BF-610	Sculpture-I	0+3
FINE ARTS	BF-611	Drafting-I	0+3
		Total	18

Subject Area	Course Code	Course	Cr. H		
	Lec	ctures			
FINE ARTS	BF-612	History of culture	2+0		
Humanities	Eng-602	English –II	2+0		
Humanities	Pak-605	Islamic studies	2+0		
	Studio-II				
FINE ARTS	BF-613	Drawing –II	0+3		
FINE ARTS	BF-614	Drafting –II	0+3		
FINE ARTS	BF-615	Sculpture-II	0+3		
FINE ARTS	BF-616	Drafting-II	0+3		
		Total	18		

# Semester 3

Subject Area	Course Code	Subject	Cr. h	
	Le	ctures		
FINE ARTS	BF-617	Art Appreciation	2+0	
Humanities	Eng-603	English-III	2+0	
CS	CS-606 L	Computer Skills	1+1	
	Studios			
FINE ARTS	BF-618	Drawing-III	0+2	
FINE ARTS	BF-619	Painting-I	0+3	
FINE ARTS	BF-620	Sculpture-III	0+3	
FINE ARTS	BF-621	Printmaking-I	0+2	
FINE ARTS	BF-622	Miniature-I	0+2	
		Total	18	

# Semester 4

Subject Area	Course Code	Subject	Cr. h	
		Lectures		
FINE ARTS	BF-623	History of Muslim Art	2+0	
FINE ARTS	BF-624	History of art	2+0	
Studios				
FINE ARTS	BF-625	Drawing-IV	0+2	
FINE ARTS	BF-626	Painting –II	0+3	
FINE ARTS	BF-627	Sculpture-IV	0+3	
FINE ARTS	BF-628	Printmaking-II	0+2	
FINE ARTS	BF-629	Miniature-II	0+3	
		Total	17	

Subject Area	<b>Course Code</b>	Subject	Cr. h
	L	ectures	
FINE ARTS	BF-630	History of western art	2+0
FINE ARTS	BF-631	Techniques of painting	2-0
	S	tudios	
FINE ARTS	BF-632	Drawing-V	0+2
	<u> </u>	Major	
FINE ARTS	BF-633	Painting(Major)-III	0+6
FINE ARTS	BF-634	Sculpture(Major)-V	0+6
FINE ARTS	BF-635	Miniature(Major)-III	0+6
FINE ARTS	BF-636	Printmaking(Major)-III	0+6
	ľ	Minor	
FINE ARTS	BF-637	Painting-III	0+3
FINE ARTS	BF-638	Sculpture-V	0+3
FINE ARTS	BF-639	Miniature-III	0+3
FINE ARTS	BF-640	Printmaking-III	0+3
		Total	15

# Semester 6

Subject Area	Course Code	Subject	Cr. H		
	Lectures				
ARCHITECTURE	BF-641	Muslim Architecture	3+0		
FINE ARTS	BF-642	History of western art-II	2+0		
	,	Studios	·		
FINE ARTS	BF-643	Drawing –VI	0+2		
		Major			
FINE ARTS	BF-644	Painting(Major)-IV	0+6		
FINE ARTS	BF-645	Sculpture(Major)-VI	0+6		
FINE ARTS	BF-646	Miniature(Major)-IV	0+6		
FINE ARTS	BF-647	Printmaking(Major) –IV	0+6		
	•	Minor			
FINE ARTS	BF-648	Painting-IV	0+3		
FINE ARTS	BF-649	Sculpture-VI	0+3		
FINE ARTS	BF-650	Miniature-IV	0+3		
FINE ARTS	BF-651	Printmaking-IV	0+3		
		Total	16		

# Semester 7

Subject Area	Course Code	Subject	Cr. H
	$\mathbf{L}$	ectures	
FINE ARTS	BF-652	Art in Pakistan	2+0
FINE ARTS	BF-653	Modern art	2+0
		Studios	
FINE ARTS	BF-654	Drawing-VII	0+2
	·	Major	
FINE ARTS	BF-655	Painting(Major)–V	0+6
FINE ARTS	BF-656	Sculpture(Major)-VII	0+6
FINE ARTS	BF-657	Miniature(Major)–V	0+6
FINE ARTS	BF-658	Printmaking(Major)-V	0+6
	·	Minor	
FINE ARTS	BF-659	Painting-V	0+3
FINE ARTS	FA-660	Sculpture-VII	0+3
FINE ARTS	BF-661	Miniature-V	0+3
FINE ARTS	BF-662	Print making-V	0+3
		Total	15

Subject Area	Course Code	Subject	Cr. H	
FINE ARTS	BF-663	Thesis report & viva vice	3+0	
Studio				
FINE ARTS	BF-664	Thesis project	0+12	
	Total		15	

# Institute of Education & Research (IER)

### 1. Introduction

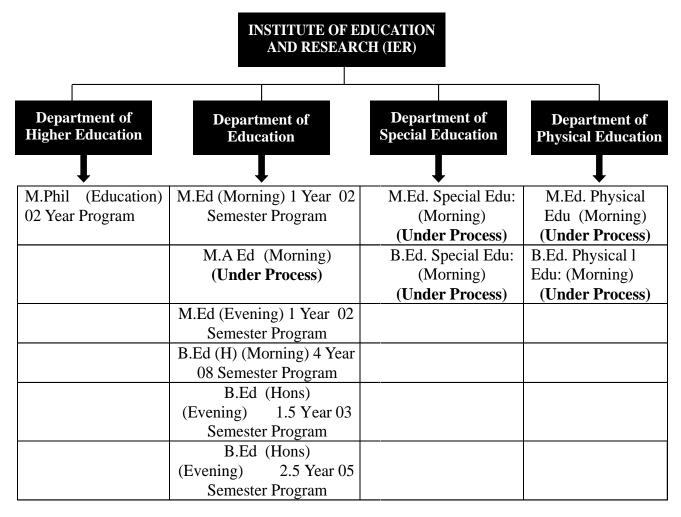
The discipline of education is a foundation subject in social sciences crucially contributing towards the national development. Education is concerned with human resource development for efficient functioning of educational system. It is founded on scientific study of human behavior including teacher 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 for the Institute:

# 2. Objectives

- 1. To produce professional teachers, who have the theoretical knowledge and understanding, combined with practical skills, competencies and commitment to teach.
- 2. To inculcate the habit of enquiry and seek the research based knowledge and with a view to improve teaching and learning in schools.
- 3. Development of modern teaching skills and techniques.
  - The Institute is the premier teacher Education institution in Balochistan. The Institute at present provides facilities to train candidates. 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 for working school 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 teacher to the Province.
  - The Department of Education has upgraded as Institute of Education and Research (IER) in 2015. The institute has comprises three broad Departments.



- The different programs of the institute as accredited in July 2013, for the next three years (2016). E.g. M.Ed (Morning/ Evening) And B.Ed (H) 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 (H) & M.Ed have been revised and different specializations have been started in M.Ed Program.
- The institute started the Bi-Annual Journal; Journal of Education and humanities Research (JEHR) 2015.
- B.Ed (Evening) one year program is closed as per HEC guide lines.
- M.Ed (Morning/ Evening) programs are shifted to semesters (Two semester's one year program) as per HEC guide lines. From session 2017.
- B.Ed (Hons) one and half year will be started in Evening shift in session, 2017.
- B.Ed (Hons) two and half years will be started in Evening shift in session, 2017.

### **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.

## **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.

# **Value Statement:**

The Institute operates on core values of commitment, creativity, responsiveness and respect to others to serve the community.

# 3. Faculty

S#	NAME	DESIGNATION	QUALIFICATION	FIELD OF SPECIALIZATION
1.	Mr. Abdul Nasir Kiazai	Director/ Assistant Professor Institute of Education & Research	M. Phil/ M.Ed. M.A / LLB, Ph.D. Scholar (HU) Karachi	Education Foundation, Education Administration & Supervision
2.	Mrs. Amir Bano	Chairperson/ Assistant Professor Department of Higher Education	M. Phil/ M.Ed Ph.D. Scholar (Priston University) Islamabad	Guidance & Counseling, Educational Psychology
3.	Mr. Dost Mohammad Tareen	Chairperson/ Assistant Professor Department of Special Education	M.Phil / M.A (Eng. Lit) M.Sc.(Math)	Research Method and Statistics
4.	Ms. Bushra Batool	Chairperson/ Lecturer Department of Education	M.Ed / M.Sc M.Phil Scholar UOB	Education Psychology, Foundation of Education, Philosophy of Education
5.	Mrs. Shireen Taj	Assistant Professor	M.Ed./ M.Phil Scholar UOB	Curriculum Development/ Society School & Teacher
6.	Dr. Sajida Noureen	Assistant Professor	Ph.D.	Administration & Supervision
7.	Ms. Zahida Achakzai	Lecturer	M.Ed. /M.Sc M.Phil leading to Ph.D Scholar (IIU) Islamabad	Study Leave
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 and Counseling
12.	Mr. Abdul Qadoos	Lecturer	M.Phil Master of Technology Education (MTE), IER University of Punjab.	Management & Supervision Child Development & Research Method

S#	NAME	DESIGNATION	QUALIFICATION	FIELD OF SPECIALIZATION
13.	Ms. Nadia Ali	Lecturer	M.A Education M.A English Literature M.Phil Scholar	Teacher Education
14.	Ms. Shumaila Dad	Lecturer	M.A Education M.A IR M.Phil Scholar	Curriculum Development
15.	Mr. Abdul Wahab	Lecturer	M.Phil Scholar M.Ed M.A Sociology	Sociology Administration and Supervision

### 4. Admin Staff

S.No	NAME	DESIGNATION
1.	Mr. Abdul Khaliq	Admin officer
2.	Mr. Nazeer Ahmed	Librarian
3.	Mr. Muhammad Aamir	Incharge Accounts
4.	Mr. Abdul Majeed	Office Assistant
5.	Mr. Muhammad Anwar	Computer Lab In charge
6.	Mr. Marri	Peon
7.	Mr. Reham Dil	Peon

# 5. Years B. Ed (Hons) Elementary

A Teacher Education Program with the new Prospects & Respect for the future teachers in our society

The applications are invited on the prescribed form for the admission to 4 Year B. Ed (Hons) Program with the HEC revised up-dated curriculum is launched at University of Balochistan, Quetta in the year 2011. Now the Admissions for its 3<sup>rd</sup> Cohort are announced.

**Vision:** The vision of this program for the University of Balochistan, Quetta is that to strengthen the teachers of Balochistan and give them the honor able status in the society through their professional Development.

**Mission:** This program is started with the aim to bring changes in the existing or time tested system for the professional Development of the teachers. By these changes have a plan to change the overall scenario for the future teacher as well as the class room teaching.

### Why to prefer the admission in B. Ed (Hons):

- The service rules along with the great changes like after the completion of ADE (Associate Degree in Education) 2-year the teacher will be eligible for 15 grade and after the completion of B. Ed (Hons) 4 years (8 Semester Course) the teacher will get the 17 grade. The mentioned service rules are notified under the Government of Balochistan Service rule notification------
- The new jobs for the ADE/B. Ed (Hons) passed candidates.
- After completing 2 years, the Universities/ institutions may award an Associate Degree in Education (ADE). However, the students admitted for B. Ed (Hons) 4 years Degree can quit after the successful completion of 2 years (4 semesters) with 2 CGPA.

### **Degree Requirement:**

The B. Ed (Hons) 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:**

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

Semester: I (Year – I)

S. #	Name of the Subject	Nature of the Subject	<b>Credit Hours</b>
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>		17

## Semester: II (Year- I)

S. #	Name of the Subject	Nature of the Subject	<b>Credit Hours</b>
1	Equito - E (Como unitario RRI)	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>		17

# Semester : III ( Year- II)

S. #	Name of the Subject	Nature of the Subject	Credit Hours
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.Scienc	Professional	03
5	Instructional and Communication	Professional	02
	Technology ( ICT) in Education		
6	Teaching Practice	Short Term	03
	<b>Total Credit Hours in the Semester</b>		17

# Semester : IV ( Year- II)

S. #	Name of the Subject	Nature of the Subject	Credit Hours
1	Classroom Assessment	Foundation	03
2	Teaching Of English	Professional	03
3	Teaching Of Mathematics	Professional	03
4	School, Community and Teacher	Foundation	2+1
5	Teaching of Social Studies	Professional	02
6	Teaching practice		03
	<b>Total Credit Hours in the Semester</b>		17

# Semester: V (Year-III)

S. #	Name of the Sub	Nature of the Subject	Credit Hours
	ject		
1	English-III ( Technical Writing &	Compulsory	03
	Presentation Skills)		
2	Foundations of Education	Foundation	03
3	Content Course-I ( from selected	Content	03
	Discipline-I)		
4	Content Course-I ( from selected	Content	03
	Discipline-II)		
5	Curriculum Development	Foundation	03
6	Educational Psychology	Foundation	03
	<b>Total Credit Hours in the Semester</b>		18

# Semester : VI ( Year- III)

S. #	Name of the Subject	Nature of the Subject	Credit Hours
1	Contemporary Issues and Trends in	Professional	03
	Education		
2	Content Course-I I( from selected	Content	03
	Discipline-I)		
3	Content Course-I I( from selected	Content	03
	Discipline-II)		
4	Comparative Education	Professional	03
5	Introduction to Guidance and Counseling	Professional	03
	<b>Total Credit Hours in the Semester</b>		15

# Semester : VII ( Year- IV)

S. #	Name of the Subject	Nature of the Subject	<b>Credit Hours</b>
1	Content Course-III ( from selected	Content	03
	Discipline-I)		
2	Content Course-III ( from selected	Content	03
	Discipline-II)		
3	Pedagogy-I (Methods of Teaching related		03
	Specialization-I)		
4	Pedagogy-II ( Methods of Teaching		03
	related Specialization-II)		
5	Research Methods in Education	Professional	03
6	Teaching Practice	(Short Term)	03
	<b>Total Credit Hours in the Semester</b>		18

### **Semester**: VIII (Year-IV)

S.No	Name of the Subject	Nature of the Subject	<b>Credit Hours</b>
1	School Management	Professional	03
2	Test Development and Evaluation	Professional	03
3	Teaching Practice	Long Term	06
4	Research Project	Professional	03
	<b>Total Credit Hours in the Semester</b>		15
	<b>Grand Total Credit Hours</b>		134

### 6. Eligibility Criteria for Admission:

- **6.1:** F.A / F.Sc / A-Level / Or any its equivalent
- **6.2:** Should qualify the entry test will be conducted by Department.
- **6.3 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)

### 7. Facilities Provided by The Institute of Education & Research (IER)

- **1.1. 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.
- **1.2. DEPARTMENTAL LIBRARY**: The Institute 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. The Institute Library also possesses research journals of social sciences like, Balochistan studies Journal, PJR Punjab Journal Review and Sindh University Journal Review.
- **1.3. 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.
- **1.4. COMMITTEE ROOM:** A Committee room equipped with all the modern facilities Including slides, overhead projector, multimedia, IWB. and computer connected with internet and printer.
- **1.5. SECURITY MEASURES:** The institute as taken serious action regarding security measures, The whole Institute critical openings are grilled for the security purpose and fixed the grills on all windows and opening doors, and also fixed the 04 security cameras in all corridors.
- **1.6. SCIENCE LABORATORY:** The Science Laboratory of the Institute has essential equipment and apparatus for practical work in the science subjects at secondary level.

### 1.7. INSTRUCTIONALAIDS:

- ? Computers ? Printers? Multimedia ? OHPs ? Screens
- ? Photocopier ? Laptops? Cameras ? Scanner ? USB
- ? IWB (Interactive White Board)? Wi-Fi Router? Hard Drive



# **Faculty of Literature & Linguistics**

Institute of Linguistics & Literature

1) BS (English) 4 Years Program















# **Institute Of Linguistics and Literature**

### **Preamble**

Every year a large number of students apply for admission in the Department of English with the expectation to improve their English. In a world of ever greater interaction the importance of English language cannot be denied. English has turned into a universal language. Institute of Linguistics and Literature aims to fulfill the ever growing demand of English. The institute is motivated to develop human resource and evolve effective research and analysis environment.

### **Mission**

Our mission is to prepare students for any career requiring critical reading, clear thinking, and effective communication and writing skills. Literature grants us insight into diverse human conditions and experiences. Students of literature understand the diversity of human nature. The vibrant world of words and wisdom enable our students to walk through the complexities of life with courage, assurance, and understanding.

### Mission

To develop conducive learning environment and enable students to acquire knowledge and understanding of linguistics as discipline and also master English Language competence so that to practically culminate their knowledge in diverse walks of life.

To design and conduct short courses in foreign languages and provide opportunity of higher education to the talented students from various backgrounds and enable them to find venues in the local, national and global markets.

# **Objectives**

To develop conducive learning environment and enable students to acquire knowledge and understanding of linguistics as discipline and also master English Language competence so that to practically culminate their knowledge in diverse walks of life.

To design and conduct short courses in foreign languages and provide opportunity of higher education to the talented students from various backgrounds and enable them to find venues in the local, national and global markets.

# **Job/Career Opportunities**

- Education/ research institutes in Public/ Private Institutions,
- Electronic and Print Media.
- Interpreter/Translator in Public offices.
- English coaching centers and institutions
- Literary/Cultural institutions.

### Criteria

- Intermediate or its equivalent
- Should qualify the entry test will be conducted by Department.

# **Faculty**

S.No.	Name	Designation	Qualification
1	Prof.Dr. Faria Saeed Khan	Professor/ Director	Ph.D (Eng Lit)
2	Ms. Munawara	Assistant Professor/	M.A (Eng Lit)
		Chairperson	
3	Dr. Najia Zadi	Associate Professor	Ph.D (Eng Lit)
4	Dr. Saima Manzoor	Assistant Professor	Ph.D (Eng Lit)
5	Ms. Shahida Achakzai	Lecturer	M.A (Eng Lit)
			M.Phil Scholar (Eng Lit)
6	Mrs. Rafia Bokhari	Lecturer	M.A (Eng Lit)
			M.Phil Scholar (Eng Lit)
7	Mr. Ghulam Rasool	Lecturer	M.A (Eng Lit)
			M.Phil Scholar (Eng Lit)
8	Ms. Sidra Batool	Lecturer	M.A (Eng Lit)
9	Mr. Zeeshan	Assistant Professor	M.Phil(Applied Linguistics)
10	Dr. Naseem Achakzai	Professor	Ph.D (Eng Lit)
11	Mr. Saeed Ahmed Lehri	Lecturer	M.Phil (Linguistics)
12	Mr. Naeem Nasir	Lecturer	M.A in (Eng Lit)
			M.Phil Scholar(Linguistics)
13	Mr. Zahid Hussain Pathan	Assistant Professor	M.Phil (Applied Linguistics)
14	Mr Imran Bhatti	Lecturer	M.Phil (Linguistics)
15	Dr. Niaz Soomro	Lecturer	Ph.D (Linguistics)

# **Program Structure**

# Semester 1

S No.	Courses	Credit Hours
1	History of English Literature	4(3-1)
2	Classical Poetry	3(3-0)
3	Renaissance Drama	4(3-1)
4	Victorian Novel	4(3-1)
5	Introduction to English Linguistics	3(3-0)

# Semester 2

S No.	Courses	Credit Hours
1	Pragmatics	3(3-0)
2	Pakistan Studies	3(3-0)
3	Prose	3(3-0)
4	Functional English	3(3-0)

S No.	Courses	Credit Hours
1	Literary Criticism	4(3-1)
2	Romantic Poets	3(3-0)
3	Letter Writing	3(3-0)
4	Computer Skills	3(3-0)
5	Modern Prose Writers	4(3-1)

# Semester 4

S No.	Courses	Credit Hours
1	Islamic Studies	3(3-0)
2	Term Paper	6(6-0)
3	Seminars/ Presentation	3(3-0)
4	Modern Poetry	3(3-0)
5	Pakistani English Literature	3(3-0)

# Semester 5

S No.	Courses	<b>Credit Hours</b>
1	Introduction to Philosophy	3(3-0)
2	Second Language Acquisition	3 (3-0)
3	Academic Writing	3 (3-0)
4	Semantics	3 (3-0)
5	Syntax	3(3-0)

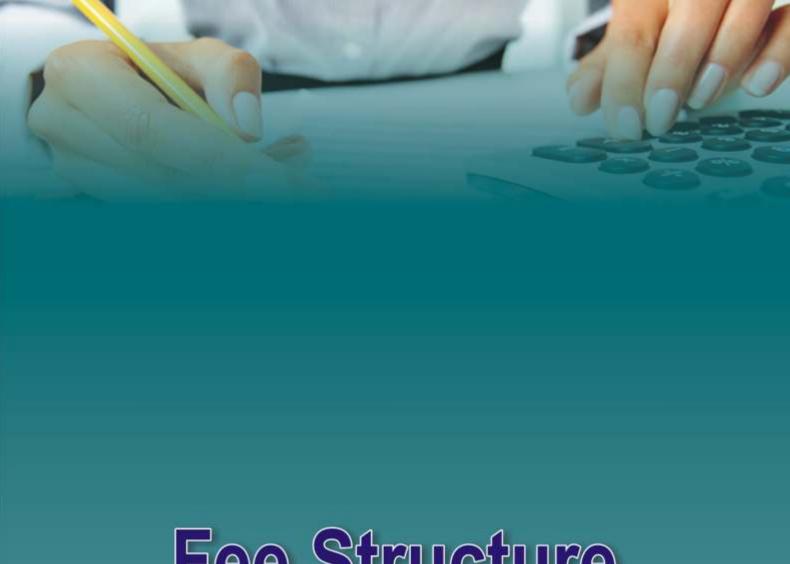
# Semester 6

S No.	Courses	Credit Hours
1	Language Teaching Methods	3 (3-0)
2	Pedagogical Grammar	3 (3-0)
3	Sociolinguistics	3 (3-0)
4	Introduction to Psychology	3 (3-0)
5	Functional English	3 (3-0)

# Semester 7

S No.	Courses	Credit Hours
1	Short Story	3 (3-0)
2	World Literature in English Translation	3 (3-0)
3	Computer Assisted Language Learning (CALL)	3 (3-0)
4	English for Specific Purposes	3 (3-0)
5	Stylistics	2 (6-0)

S No.	Courses	Credit Hours
1	Short Story	3 (3-0)
2	World Literature in English Translation	3 (3-0)
3	Computer Assisted Language Learning (CALL)	3 (3-0)
4	English for Specific Purposes	3 (3-0)
5	Stylistics	2 (6-0)



# Fee Structure

# FEE STRUCTURE BACHELOR STUDY PROGRAMS - ADMISSION 2017

Fine Arts	1st & 2nd	Semester Year		Per Two	Semesters: 3rd & 4th/5th & 6th /7th &	2, 8th
(4 Years)	i)	Adm: Fee	Rs. 2088/-	i)	Adm: Fee	Rs. 2088/-
•	ii)	Tuition Fee	Rs. 5010/-		Tuition Fee	Rs. 5010/-
Program Tatal Duna				ii)		
Total Dues	iii)	Security Money Non Refundable	Rs. 627/-	iii)	Security Money Non Refundable	Rs
Rs. 64,703/-	iv)	Identity Card	Rs. 106/-	iv)	Identity Card	Rs. 106/-
	v)	Sports Fee.	Rs. 1047/-	v)	Sports Fee.	Rs. 1047/-
	vi)	TransportFee	Rs. 1738/-	vi)	Transport Fee	Rs. 1738/-
	vii)	Library Fee	Rs. 627/-	vii)	Library Fee	Rs. 627/-
	viii)	Student Cultural Activities	Rs. 310/-	viii)	Student Cultural Activities	Rs. 310/-
	ix)	Field Work.	Rs. 835/-	ix)	Field Work.	Rs. 835/-
	x)	Studio Fee	Rs. 3758/-	x)	Studio Fee	Rs. 3758/-
	xi)	Library Fee 50%(Refundable)	Rs. 2000/-	xi)	Library Fee50% (Refundable)	Rs
	, Aij	Total	Rs. 18146/-	, Aij	Total	Rs. 15519/-
BS English	1st & 2nd	Semester Year.		Per Two	Semesters: 3rd & 4th /5th & 6th /7th &	
(4 Years)	i)	Adm: Fee	Rs. 2088/-	i)	Adm: Fee	Rs. 2088/-
Program	ii)	Tuition Fee	Rs. 5010/-	ii)	Tuition Fee	Rs. 5010/-
Total Dues			Rs. 627/			Rs
	iii)	Security Money Non Refundable		iii)	Security Money Non Refundable	
Rs. 65671/-	iv)	Identity Card	Rs. 106/-	iv)	Identity Card	Rs. 106/-
	v)	Sports Fee.	Rs. 1047/	V)	Sports Fee.	Rs.1047/-
	vi)	TransportFee	Rs. 1738/-	vi)	Transport Fee	Rs.1738/-
	vii)	Library Fee	Rs. 627/-	vii)	Library Fee	Rs. 627/-
	viii)	Student Cultural Activities	Rs. 310/-	viii)	Student Cultural Activities.	Rs. 310/-
	ix)	Field Work	Rs. 835/-	ix)	Field Work	Rs. 835/-
	x)	Library Fee 50%(Refundable)	Rs. 2000/-	x)	Library Fee 50% (Refundable)	Rs
	xí)	Exam: Fee	Rs. 4000/-	xí)	Exam: Fee	Rs. 4000/-
	7,	Total	Rs. 18388/-	7,	Total	Rs. 15761/-
Computer	1st & 2nd	Semester Year.		Per Two	Semesters: 3 <sup>rd</sup> & 4 <sup>th</sup> /5 <sup>th</sup> & 6 <sup>th</sup> /7 <sup>th</sup> 8	k 8 <sup>th</sup>
Science	i)	Adm: Fee	Rs. 2088/-	i)	Adm: Fee	Rs. 2088/-
BS(CS/IT)	í)	Tuition Fee	Rs. 21221/-	ii)	Tuition Fee	Rs. 21221/-
(4 Years)	iii)	Identity Card	Rs. 106/-	l iii)	Identity Card	Rs. 106/-
Program	iv)	Student Cultural Activities	Rs. 310/-	iv)	Student Cultural Activities	Rs. 310/-
Total Dues	v)	Sports Fee.	Rs. 1045/	v)	Sports Fee.	Rs. 1045/
			Rs. 1738/-			
Rs. 143941/-	Vi)	TransportFee		vi)	TransportFee	Rs. 1738/-
	vii)	Computer Labrotary Fee	Rs. 1392/-	vii)	Computer Labrotary Fee	Rs. 1392/-
	viii)	Library Fee	Rs. 627/-		Library Fee	Rs. 627/-
	ix)	Departmental Hardware Fee	Rs. 8349/-	ix)	Departmental Hardware Fee	Rs
	x)	Library Fee 50%(Refundable)	Rs. 2000/-	x)	Library Fee 50%(Refundable)	Rs
	xi)	Exam: Fee	Rs. 4871/-	xi)	Exam: Fee	Rs. 4871/-
		Total	Rs. 43747/-		Total	Rs. 33398/-
B.Ed.(Hons)	_	<u>Semester</u>	D: 074/		Semesters: 3rd & 4th /5th & 6th /7th &	
(8 <sup>TH</sup> Semester)	i)	Admn: Fee	Rs. 974/-	i)	Admn: Fee	Rs. 974/-
	ii)	Tution Fee.	Rs. 5558/-	ii)	Tution Fee.	Rs. 5558/-
Four year Program		Identity card	Rs. 71/-	iii)	Identity card	Rs. 71/-
Four year Program Total Dues For 4	iii)		13. 7 17	,		
	iii) iv)	Student Cultural Activities	Rs. 557/-	iv)	Student Cultural Activities	Rs. 557/-
Total Dues For 4	,					Rs. 557/- Rs. 1484/-
Total Dues For 4 Year	iv) v)	Student Cultural Activities Sports Fee	Rs. 557/- Rs. 1484/-	iv) v)	Student Cultural Activities Sports Fee	Rs. 1484/-
Total Dues For 4 Year	iv) v) vi)	Student Cultural Activities Sports Fee Transport Fee	Rs. 557/- Rs. 1484/- Rs. 2595/-	iv) v) vi)	Student Cultural Activities Sports Fee Transport Fee	Rs. 1484/- Rs. 2595/-
Total Dues For 4 Year	iv) v) vi) vii)	Student Cultural Activities Sports Fee Transport Fee Computer LaboratoryFee	Rs. 557/- Rs. 1484/- Rs. 2595/- Rs. 3637/-	iv) v) vi) vii)	Student Cultural Activities Sports Fee Transport Fee Computer LaboratoryFee	Rs. 1484/- Rs. 2595/- Rs. 3637/-
Total Dues For 4 Year	iv) v) vi) vii) viii)	Student Cultural Activities Sports Fee Transport Fee Computer LaboratoryFee Library Fee	Rs. 557/- Rs. 1484/- Rs. 2595/- Rs. 3637/- Rs. 1114/-	iv) v) vi) vii) viii)	Student Cultural Activities Sports Fee Transport Fee Computer LaboratoryFee Library Fee	Rs. 1484/- Rs. 2595/- Rs. 3637/- Rs. 1114/-
Total Dues For 4 Year	iv) v) vi) vii) viii) ix)	Student Cultural Activities Sports Fee Transport Fee Computer LaboratoryFee Library Fee Library Security 50% (Refundable)	Rs. 557/- Rs. 1484/- Rs. 2595/- Rs. 3637/- Rs. 1114/- Rs. 2000/-	iv) v) vi) vii)	Student Cultural Activities Sports Fee Transport Fee Computer LaboratoryFee Library Fee Library Fee50% (Refundable)	Rs. 1484/- Rs. 2595/- Rs. 3637/- Rs. 1114/- Rs
Total Dues For 4 Year	iv) v) vi) vii) viii)	Student Cultural Activities Sports Fee Transport Fee Computer LaboratoryFee Library Fee	Rs. 557/- Rs. 1484/- Rs. 2595/- Rs. 3637/- Rs. 1114/-	iv) v) vi) vii) viii)	Student Cultural Activities Sports Fee Transport Fee Computer LaboratoryFee Library Fee	Rs. 1484/- Rs. 2595/- Rs. 3637/- Rs. 1114/-

# FEE STRUCTURE BACHELOR STUDY PROGRAMS - ADMISSION 2017

Pharm-D	1st & 2nd Semesters.		Per Two Semesters: 3rd & 4th/5th & 6th/7th & 8th/9th & 1	Oth
(5 Years)	i) Admn: Fee.	Rs. 2662/-	i) Admn: Fee. Rs. 2662	
Dootor of Dhysical	ii) Tuition Fee.	Rs. 6655/-	ii) Tuition Fee. Rs. 665	
Doctor of Physical	iii) Security Money (Non Ref		iii) Security Money (Non Refundable). Rs	
Therapy (DPT) (5 Years)	iv) Identity Card.	Rs. 79/-	iv) Identity Card. Rs. 79/-	
	v) Student cuttural Activities		v) Student cuttural Activitie Rs. 240/	
Bachelor of Eastern Medicine &	vi) Sports Fee.	Rs. 726/-	vi) Sports Fee. Rs. 726/	
Surgery (B.E.M.S)	vii) Laboratory Fee.	Rs. 3127/-	vii) Laboratory Fee. Rs. 312	
(5 Years)	viii) Transport Fee.	Rs. 1670/-	viii) Transport Fee. Rs. 1670	
Total Dues for 5	ix) Field Fee.	Rs. 3509/-	ix) Field Fee. Rs. 350	9/-
years.	x) Libarary Fee.	Rs. 476/-	x) Libarary Fee. Rs. 476/	/
(10th Semesters)	xi) Computer Lab:	Rs. 2662/	xi) Computer Lab: Rs. 2662/-	
Rs. 1,11,546/-	xii) Library Security 50 % Re	fundable Rs. 2000/-	xii) Library Security <u>50 % Refundable Rs</u>	
	<u>Total</u>	Rs. 24338/-	Total Rs. 218	<u> 106</u>
BS Geology	1st & 2ND Semesters.		Per Two Semesters: 3rd & 4th /5th & 6th /7th & 8th.	
Four Year	i) Admn: Fee.	Rs. 3209/-	i) Admn: Fee. Rs. 320	
Program	ii) Tuition Fee.	Rs. 8866/-	ii) Tuition Fee. Rs. 8866	6/-
Total Dues for 4	iii) Security Money (Non Ref	undable). Rs. 627/-	iii) Security Money (Non Refundable). Rs. 627/	
Year	iv) Identity Card.	Rs. 106/-	iv) Identity Card. Rs. 106/	
Rs. 1,44,447/-	<ul><li>v) Student cuttural Activities</li></ul>		v) Student cuttural Activities Rs. 313/	
	vi) Sports Fee.	Rs. 2087/-	vi) Sports Fee. Rs. 208	
	vii) Laboratory Fee.	Rs. 2087/-	vii) Laboratory Fee. Rs. 208	
	viii) Transport Fee.	Rs. 1670/-	viii) Transport Fee. Rs. 1670	
	ix) Field Fee.	Rs. 4175/-	ix) Field Fee. Rs. 4175	
	x) Libarary Fee.	Rs. 627/-	x) Libarary Fee. Rs. 627/	
	xi) Computer Lab:	Rs. 5009/-	xi) Computer Lab: Rs. 500	
	xii) Library Security 50 % Re		xii) Library Security 50 % Refundable Rs. 2000	
	xiii) Examination Fee	Rs. 7306/-	xiii) Examination Fee Rs. 7300	
	<u>Total</u>	Rs. 38082/-	Total Rs. 380	<u> 182/-</u>
BS Renewable	1st & 2ND Semesters.		Per Two Semesters: 3rd & 4th/5th & 6th/7th & 8th.	
Energy	i) Admn: Fee.	Rs. 3209/-	i) Admn: Fee. Rs. 320	9/_
Four Year	ii) Tuition Fee.	Rs. 8866/-	ii) Tuition Fee. Rs. 8866	
Program	iii) Security Money (Non Ref		iii) Security Money Non Refundable). Rs. 627/	
Total Dues for 4	iv) Identity Card.	Rs. 106/-	iv) Identity Card. Rs. 106/	
Year	v) Student cuttural Activities		v) Student cuttural Activities. Rs. 313/	
Rs. 1,44,447/-	vi) Sports Fee.	Rs. 2087/-	vi) Sports Fee. Rs. 208	
	vii) Laboratory Fee.	Rs. 2087/-	vii) Laboratory Fee. Rs. 208	
	viii) Transport Fee.	Rs. 1670/-	viii) Transport Fee. Rs. 1670	
	ix) Field Fee.	Rs. 4175/-	ix) Field Fee. Rs. 4179	
	x) Libarary Fee.	Rs. 627/-	x) Libarary Fee. Rs. 627/	
	xi) Computer Lab:	Rs. 5009/-	xi) Computer Lab: Rs. 500	
	xii) Library Security 50 % Re		xii) Library Security 50 % Refundable Rs. 2000	
	xiii) Examination Fee	Rs. 7306/-	xiii) Examination Fee Rs. 7300	
	Total	Rs. 38082/-	Total Rs. 380	

# FEE STRUCTURE BACHELOR STUDY PROGRAMS - ADMISSION 2017

BS	1st & 2 <sup>ND</sup> Semesters.		Per Two Semesters: 3rd & 4th /5th & 6th /7th &	8th
Microbioblogy	i) Admn: Fee.	Rs. 3209/-	i) Admn: Fee.	Rs. 3209/-
Four Year	ii) Tuition Fee.	Rs. 8866/-	ii) Tuition Fee.	Rs. 8866/-
Program	iii) Security Money (Non Refundable).	Rs. 627/-	iii) Security Money (Non Refundable).	Rs
Total Dues for 4	iv) Identity Card.	Rs. 106/-	iv) Identity Card.	Rs. 106/-
Years	1	Rs. 313/-		Rs. 313/-
Rs. 1,44,447/-	vi) Sports Fee.	Rs. 2087/-	vi) Sports Fee.	Rs 2087/-
	vii) Laboratory Fee.	Rs. 2087/-	vii) Laboratory Fee.	Rs. 2087/-
	viii) Transport Fee.	Rs. 1670/-	viii) Transport Fee.	Rs. 1670/-
	ix) Field Fee.	Rs. 4175/-	ix) Field Fee.	Rs. 4175/-
	x) Libarary Fee.	Rs. 627/-	x) Libarary Fee.	Rs. 627/-
	xi) Computer Lab:	Rs. 5009/-	xi) Computer Lab:	Rs. 5009/-
	xii) Library Security 50 % Refundable	Rs. 2000/-	xii) Library Security 50 % Refundable	Rs
	xiii) Examination Fee	Rs. 7306/-	xiii) <u>ExaminationFee</u>	Rs. 7306/-
	<u>Total</u>	Rs. 38082/-	<u>Total</u>	Rs. 35455/-
Pio Tochnology	1st 9. 2nd Somostore		Per Two Semesters: 3 <sup>rd</sup> & 4 <sup>th</sup> /5 <sup>th</sup> & 6 <sup>th</sup> /7 <sup>th</sup> & 8	Oth
Bio Technology BS 4 Year	i) Admn: Fee.	Rs. 3209/-		Rs. 3209/-
			l ,	
Program	ii) Tuition Fee	Rs. 8866/-	l ,	Rs. 8866/-
Di Ol I I	iii) Security Money (Non Refundable).	Rs. 627/-	iii) Security Money (Non Refundable).	Rs
Bio Chemistry	iv) Identity Card.	Rs. 106/-	iv) Identity Card.	Rs. 106/-
BS 4 Year	v) Student cuttural Activities	Rs. 313/-	v) Student cuttural Activities	Rs. 313/-
Program	vi) Sports Fee.	Rs 2087/-	vi) Sports Fee.	Rs. 2087/-
	vii) Laboratory Fee.	Rs. 2087/-	vii) LaboratoryFee.	Rs. 2087/-
Total Dues for 4	viii) Transport Fee.	Rs.1670/-	viii) Transport Fee.	Rs. 1670/-
Year	ix) Field Fee.	Rs. 4175/-	ix) Field Fee.	Rs. 4175/-
Rs. 1,44,447/-	x) Libarary Fee.	Rs. 627/-	x) Libarary Fee.	Rs. 627/-
	xi) Computer Lab:	Rs. 5009/-	xi) Computer Lab:	Rs. 5009/-
	xii) Library Security 50 % Refundable	Rs. 2000/-	xii) Library Security 50 % Refundable	Rs
	xiii) Examination Fee	Rs. 7306/-	xiii) ExaminationFee	Rs. 7306/-
	Total	Rs. 38082/-	Total	Rs. 35455/-
B.Com	1st year		2 <sup>nd</sup> year	
2 Year Program	i) Admn: Fee.	Rs. 2088/-	i) Admn: Fee.	Rs. 2088/-
Total Dues for	ii) Tuition Fee.	Rs. 3756/-	ii) Tuition Fee.	Rs. 3756/-
Two Year	iii) Security Money (Non Refundable).	Rs. 627/-	iii) Security Money (Non Refundable).	Rs
Rs. 23,507/-	iv) Identity Card.	Rs. 106/-	iv) Identity Card.	Rs. 106/-
	v) Student cuttural Activities.	Rs. 313/-	v) Student cuttural Activities.	Rs. 313/-
	vi) Sports Fee.	Rs. 1045/-	vi) Sports Fee.	Rs. 1045/-
	vii) Transport Fee.	Rs. 1670/-	vii) Transport Fee.	Rs. 1670/-
	viii) Field Fee.	Rs. 835/-	viii) Field Fee.	Rs. 835/-
	ix) Libarary Fee.	Rs. 627/-	ix) Libarary Fee.	Rs. 627/-
	x) <u>Library Security 50 % Refundable</u>	Rs. 2000/-	x) Library Security 50 % Refundable	Rs
	Total	Rs. 13067/-	Total	Rs. 10440/-
	IOtal	1.3. 13007/-	10(a)	113. 10440/-
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Note: i) Hostel Room Rent for Reegular Students. Rs. 4300/- per Year.

ii) Hostel Room Rent for Self Finance @ Rs. 2530/- Per Month, Rs. 30,360/- 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 wating 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 paid by each student accordingly.

\*\*\* Fee once deposited shall not be refunded. \*\*\*

























Prepared by:
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