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**UNIVERSITY OF TURBAT**

**SELF ASSESSMENT REPORT**

**(M.Sc. Chemistry)**

2 Years Degree Program

Submitted to

**Quality Enhancement Cell**

**UoT**

**Department of Chemistry**

**University of Turbat**

**Prepared by**

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Mr. Zafar Ahmed (Program Team Member)

**INTRODUCTION**

The Department of Chemistry was established in 2015. Presently, the Department offers BS (Hons) and M.Sc. programs. The Department is furnished by all the basic research instruments. The department is highly equipped with all sorts of chemicals and books. We hope that it would be an excellent center of learning and research in near future and would contribute to the development of the area and in turn the country. This Self-Assessment Report (SAR) of the Chemistry Department has been prepared in the light of eight (8) criteria and associated standards as per guidelines in the Self-Assessment Manual of HEC, Pakistan.

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Chairperson

Department of Chemistry

University of Turbat Kech

**CRITERION 1**

**PROGRAM MISSION, OBJECTIVES AND OUTCOMES**

**Criterion 1**

**Program Mission, Objectives and Outcomes**

**Institutional Mission:**

UoT mission is to educate and nurture the future role players, decision makers and responsible individuals. Commitment to the ideals of creating knowledge economy. Opening new vistas for Meaningful and original research in innovation and excellence. Remaining true to principals of merit, selfless service, and utmost objectivity. Make genuine efforts to better the lot of the people through harnessing talent and harvesting potential.

**Program Vision:**To establish a center of excellence in chemistry in which research in advance level could be carried out. The department of chemistry will be recognized for excellence by its students and faculty.   
   
**Program Mission:**The mission of the Department of Chemistry is to provide an innovative educational program that is challenging as well as flexible and supportive. The program is designed to meet the challenges that our graduates are likely to face throughout their professional careers and to provide with highly-developed skills in lifetime learning, planning, problem-solving, communication and leadership in field of chemical science.  
   
**Standard 1-1: The program must have documented measurable objectives that support faculty / college and institution mission statements   
   
Program Objectives:**

1. To provide high quality academic support to strengthen the Chemistry and related applied areas.
2. To identify problems and their targetable solutions.
3. To develop their creative skills in chemical science.
4. To work with collaborative and creative approach in the task oriented goals.
5. Demonstrate good communication skills both in report writing and in technical presentations.
6. To keep them aware about ethical and social values.
7. To provide a broad, innovative, and quality education in all areas of Chemistry
8. To prepared students for either advanced studies in chemistry or other related graduate programs, or careers in industry

**Strategic Plan for Achieving Program Mission and Objectives:**

* Curriculum design and Strengthening of Faculty.
* Online lectures and literature review facilities.
* Organizing seminars, workshops and other activities.
* Study tours of various industries and research institutes of Pakistan

**Standards1-2: The program must have documented outcome for graduating students. It must be demonstrated that the outcome support the program objective and that graduating students are capable of performing these outcomes**.

The outcomes of this program are as under to meet the Program objectives, the Department of Chemistry will graduate professional, competent chemists who will be able to demonstrate the following measurable outcomes:

1. Graduates will be able to utilize their skills in chemical and other allied sciences.
2. Graduates will be able to work in groups.
3. A proficiency in chemistry and basic sciences including mathematics, and computer skills.
4. A proficiently in chemical science concepts covering all areas of basic chemical concepts.
5. The ability to characterize the properties of various compounds, using the experimental techniques.
6. The ability to express thoughts and ideas through oral, written, and computer communications.

**Objective vs Outcomes**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **PROGRAMME OBJECTIVES** | O**UTCOMES** | | | | | |
| **1** | **2** | **3** | **4** | **5** | **6** |
| To provide high quality academic environment to strengthen the Chemistry and related applied areas. | **\*** |  | **\*** |  |  | **\*** |
| To identify problems and their targetable solutions | **\*** |  |  |  |  |  |
| To develop their creative skills in chemical science. | **\*** |  |  |  |  |  |
| To work with collaborative and creative approach in the task oriented goals. | **\*** | **\*** | **\*** | **\*** |  |  |
| Demonstrate good communication skills both in report writing and in technical presentations. |  |  |  |  |  | **\*** |
| To keep them aware about ethical and social values. |  | **\*** |  |  |  |  |
| To provide a broad, innovative, and quality education in all areas of Chemistry | **\*** |  |  |  | **\*** |  |
| To prepared students for either advanced studies in chemistry or other related graduate programs, or careers in industry | **\*** |  |  | **\*** | **\*** |  |

**Standard 1-3: The results of programs assessment and the extent to which they are used to improve the program must be documented.**

Since this is first time the self-assessment is carried out by the department, the Program objectives assessment will be carried out during the next semester.

|  |  |
| --- | --- |
| **Year** | **Enrollment** |
| 2016-17 | 26 |
| 2017-18 | 37 |

**Standard 1-4: The department must assess its overall performance periodically using quantifiable measures.**

The programs are annually assessed by department with help of QEC.

**CRITERION 2**

**CURRICULUM DESIGN & ORGANIZATION**

**Criterion 2**

**Curriculum Design & Organization**

A curriculum is designed and organized to achieve the program’s objectives and outcomes. Curriculum standards are specified in terms of credit hours of study. A semester credit hour equals one class hour or two to three lab hours per week. The semester is approximately fifteen weeks. Curriculum design and organization information provided below for **M.Sc. (Chemistry)** program.   
 **Standard 2-1: The curriculum must be consistent and supports the program’s documented objectives**

The curriculum is consistent and supports the program’s documented objectives.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Courses/Group of courses** | **Objectives** | | | |
| **1 & 2** | **3&4** | **3&4** | **7&8** |
| Inorganic Chemistry, Organic Chemistry, Physical Chemistry, Analytical Chemistry and Biochemistry | \* |  | \* |  |
| Specialization (Inorganic/ Organic/Physical/Applied/ Analytical/Bio Chemistry  Research Project / Advanced Practical / Position Paper (literature survey) |  | \* |  | \* |

|  |  |
| --- | --- |
| **Course** | **Percentage** |
| Core Subjects | 32 |
| Specialization | 32 |

**Standard 2-2: Theoretical background, problems analysis and solution design must be stressed within the program’s core material.**The Research Methodology courses include the material to develop the above said concepts to the students.   
   
 **Standard 2-3: The curriculum must satisfy the mathematics and basic sciences requirements for the program as specified by the respective accreditation body**The curriculum satisfies the core requirements for the program as specified by the accreditation body.

**Minimum requirements of credit hours for M.Sc. (Chemistry) program**

|  |  |  |  |
| --- | --- | --- | --- |
| **Sr.#** | **Category** | **Credit Hours** | **Credit Hours** |
| 1 | **Chemistry Courses** | | 64 |
| Core Courses | 32 |
| Specialized courses | 32 |
|
| 2 | **Total Credit Hours** | | **64** |

**Standard 2-4: The curriculum must satisfy the major requirements for the program as specified by the respective accreditation body**

The curriculum satisfies the core requirements for the program as specified by HEC same as above. The curriculum in the program is fully satisfied the major requirements of the program.

**Standard 2-5: The curriculum must satisfy humanities, social sciences, arts, ethical, professional and other discipline requirements for the program as specified by the respective accreditation body**

The curriculum satisfies general education, arts, and professional and other discipline requirements for the program.

**M.Sc. (Chemistry) Program**

|  |  |
| --- | --- |
| Program Duration: 2 years | Teaching System: Semester System |
| Admission Criteria: B.Sc. with Chemistry | Total Seats: 50 |

**FIRST YEAR:**

**1st SEMESTER:**

|  |  |  |
| --- | --- | --- |
| **COURSE TITLE** | **COURSE CODE** | **CREDIT HOURS** |
| INORGANIC CHEMISTRY-I | CHEM-521 | 4 (3+1) |
| ORGANIC CHEMISTRY-I | CHEM-531 | 4 (3+1) |
| PHYSICAL CHEMISTRY-I | CHEM-541 | 4 (3+1) |
| ANALYTICAL CHEMISTRY-I | CHEM-551 | 4 (3+1) |
| **TOTAL CREDIT HOURS** |  | **16(12+4)** |

**2nd SEMESTER:**

|  |  |  |
| --- | --- | --- |
| **COURSE TITLE** | **COURSE CODE** | **CREDIT HOURS** |
| INORGANIC CHEMISTRY-II | CHEM-522 | 4 (3+1) |
| ORGANIC CHEMISTRY-II | CHEM-532 | 4 (3+1) |
| PHYSICAL CHEMISTRY-II | CHEM-542 | 4 (3+1) |
| BIOCHEMISTRY-I | CHEM-561 | 4 (3+1) |
| **TOTAL CREDIT HOURS** |  | **16(12+4)** |

**SECOND YEAR:**

**FIELD OF SPECIALIZATION**

The Department of Chemistry, University of Turbat offers specialization in:

1. Organic Chemistry II) Inorganic Chemistry
2. Physical Chemistry IV) Biochemistry
3. Analytical Chemistry

**3rd SEMESTER:**

**INORGANIC CHEMISTRY**

|  |  |  |
| --- | --- | --- |
| **COURSE TITLE** | **COURSE CODE** | **CREDIT HOURS** |
| PAPER-I | CHEM-621 | 3 (3+0) |
| PAPER-II | CHEM-622 | 3 (3+0) |
| PAPER-III | CHEM-623 | 3 (3+0) |
| LAB-I | CHEM-624 | 1 (0+1) |
| PAPER-IV (RESEARCH METHODOLOGY) | CHEM-691 | 3 (3+0) |
| RESEARCH PROJECT |  | 3 (0+3) |
| **TOTAL CREDIT HOURS** |  | **16(12+4)** |

**ORGANIC CHEMISTRY**

|  |  |  |
| --- | --- | --- |
| **COURSE TITLE** | **COURSE CODE** | **CREDIT HOURS** |
| PAPER-I | CHEM-631 | 3 (3+0) |
| PAPER-II | CHEM-632 | 3 (3+0) |
| PAPER-III | CHEM-633 | 3 (3+0) |
| LAB-I | CHEM-634 | 1 (0+1) |
| PAPER-IV (RESEARCH METHODOLOGY) | CHEM-691 | 3 (3+0) |
| RESEARCH PROJECT |  | 3 (0+3) |
| **TOTAL CREDIT HOURS** |  | **16(12+4)** |

**PHYSICAL CHEMISTRY**

|  |  |  |
| --- | --- | --- |
| **COURSE TITLE** | **COURSE CODE** | **CREDIT HOURS** |
| PAPER-I | CHEM-641 | 3 (3+0) |
| PAPER-II | CHEM-642 | 3 (3+0) |
| PAPER-III | CHEM-643 | 3 (3+0) |
| LAB-I | CHEM-644 | 1 (0+1) |
| PAPER-IV (RESEARCH METHODOLOGY) | CHEM-691 | 3 (3+0) |
| RESEARCH PROJECT |  | 3 (0+3) |
| **TOTAL CREDIT HOURS** |  | **16(12+4)** |

**ANALYTICAL CHEMISTRY**

|  |  |  |
| --- | --- | --- |
| **COURSE TITLE** | **COURSE CODE** | **CREDIT HOURS** |
| PAPER-I | CHEM-651 | 3 (3+0) |
| PAPER-II | CHEM-652 | 3 (3+0) |
| PAPER-III | CHEM-653 | 3 (3+0) |
| LAB-I | CHEM-654 | 1 (0+1) |
| PAPER-IV (RESEARCH METHODOLOGY) | CHEM-691 | 3 (3+0) |
| RESEARCH PROJECT |  | 3 (0+3) |
| **TOTAL CREDIT HOURS** |  | **16(12+4)** |

**BIOCHEMISTRY**

|  |  |  |
| --- | --- | --- |
| **COURSE TITLE** | **COURSE CODE** | **CREDIT HOURS** |
| PAPER-I | CHEM-661 | 3 (3+0) |
| PAPER-II | CHEM-662 | 3 (3+0) |
| PAPER-III | CHEM-663 | 3 (3+0) |
| LAB-I | CHEM-664 | 1 (0+1) |
| PAPER-IV (RESEARCH METHODOLOGY) | CHEM-691 | 3 (3+0) |
| RESEARCH PROJECT |  | 3 (0+3) |
| **TOTAL CREDIT HOURS** |  | **16(12+4)** |

**4th SEMESTER**

**INORGANIC CHEMISTRY**

|  |  |  |
| --- | --- | --- |
| **COURSE TITLE** | **COURSE CODE** | **CREDIT HOURS** |
| PAPER-I | CHEM-625 | 3 (3+0) |
| PAPER-II | CHEM-626 | 3 (3+0) |
| PAPER-III | CHEM-627 | 3 (3+0) |
| LAB-I | CHEM-628 | 1 (0+1) |
| PAPER-IV (ENVIRONMENTAL CHEMISTRY-II) | CHEM-671 | 3 (3+0) |
| RESEARCH PROJECT (WRITE-UP) |  | 3 (0+3) |
| **TOTAL CREDIT HOURS** |  | **16(12+4)** |

**ORGANIC CHEMISTRY**

|  |  |  |
| --- | --- | --- |
| **COURSE TITLE** | **COURSE CODE** | **CREDIT HOURS** |
| PAPER-I | CHEM-635 | 3 (3+0) |
| PAPER-II | CHEM-636 | 3 (3+0) |
| PAPER-III | CHEM-637 | 3 (3+0) |
| LAB-I | CHEM-638 | 1 (0+1) |
| PAPER-IV (ENVIRONMENTAL CHEMISTRY-II) | CHEM-671 | 3 (3+0) |
| RESEARCH PROJECT (WRITE-UP) |  | 3 (0+3) |
| **TOTAL CREDIT HOURS** |  | **16(12+4)** |

**PHYSICAL CHEMISTRY**

|  |  |  |
| --- | --- | --- |
| **COURSE TITLE** | **COURSE CODE** | **CREDIT HOURS** |
| PAPER-I | CHEM-645 | 3 (3+0) |
| PAPER-II | CHEM-646 | 3 (3+0) |
| PAPER-III | CHEM-677 | 3 (3+0)p |
| LAB-I | CHEM-678 | 1 (0+1) |
| PAPER-IV (ENVIRONMENTAL CHEMISTRY-II) | CHEM-671 | 3 (3+0) |
| RESEARCH PROJECT (WRITE-UP) |  | 3 (0+3) |
| **TOTAL CREDIT HOURS** |  | **16(12+4)** |

**ANALYTICAL CHEMISTRY**

|  |  |  |
| --- | --- | --- |
| **COURSE TITLE** | **COURSE CODE** | **CREDIT HOURS** |
| PAPER-I | CHEM-655 | 3 (3+0) |
| PAPER-II | CHEM-656 | 3 (3+0) |
| PAPER-III | CHEM-657 | 3 (3+0) |
| LAB-I | CHEM-658 | 1 (0+1) |
| PAPER-IV (ENVIRONMENTAL CHEMISTRY-II) | CHEM-671 | 3 (3+0) |
| RESEARCH PROJECT (WRITE-UP) |  | 3 (0+3) |
| **TOTAL CREDIT HOURS** |  | **16(12+4)** |

**BIOCHEMISTRY**

|  |  |  |
| --- | --- | --- |
| **COURSE TITLE** | **COURSE CODE** | **CREDIT HOURS** |
| PAPER-I | CHEM-665 | 3 (3+0) |
| PAPER-II | CHEM-666 | 3 (3+0) |
| PAPER-III | CHEM-667 | 3 (3+0) |
| LAB-I | CHEM-668 | 1 (0+1) |
| PAPER-IV (ENVIRONMENTAL CHEMISTRY-II) | CHEM-671 | 3 (3+0) |
| RESEARCH PROJECT (WRITE-UP) |  | 3 (0+3) |
| **TOTAL CREDIT HOURS** |  | **16(12+4)** |

**Standard 2-6: Information technology component of the curriculum must be integrated throughout the program**   
M.Sc. is 2 years program and entirely composed of subject specific courses. We are not offering IT and other courses master program.

**Standard 2-7: Oral and written communication skills of the students must be developed and applied in the program**

M.Sc. is 2 years program and entirely composed of subject specific courses. We are not offering English and other courses master program.

**CRITERION 3**

**LABORATORIES AND COMPUTING FACULTIES**

**Criterion 3**

**Laboratories and Computing Facilities**

The chemistry Department offers Master degrees in Chemistry. The designed curriculum for Chemistry program provides a fundamental knowledge in the major areas of Chemistry. Currently, there is only 01 laboratory in the department of chemistry.

**Laboratory Safely**

* Wearing white cotton laboratory coat or **overall** during lab work is must. Without lab. Coat, students will not be allowed to enter and work in the laboratories.
* For **safety** reasons, wearing fabrics made of synthetic materials should be avoided. Both for safety reasons and good manners of the society, male students under chadar and gold jewelry are not allowed.
* Because of chemical toxicity, taking food and drinking water inside the laboratories is not recommended.
* Taking away glassware, chemicals, equipment etc. from one laboratory to another without permission in writing from the Chairman is strictly prohibited.
* Students are expected to avoid visiting other laboratories (other than the assigned one) during working hours. In case of urgency, please take prior permission or consult the instructor of your own laboratory.
* **Accident or Emergency:** On such occasions after hearing the bell, everyone is required to rush and assemble in the entrance gate but avoid panic.

**Standard- 3-1: (Lab manuals/documentation/instruction for experiments must be available and readily accessible to faculty and students.**

There is only one general laboratory is available for both program with 50 seats.

**Objectives of Labs:** To train and support students in Chemistry and related applied areas.

**Standard 3-2: There must be adequate support personal for instruction and maintaining the computing laboratories**

There is no lab technician in the department of chemistry.

**Standard 3-3: The university computing infrastructure and facilities must be adequate to support programs objectives.**   
All faculty members and students have adequate access to computing facilities.

**CRITERION 4**

**STUDENTS SUPPORT & GUIDANCE**

**Criterion 4**

**Students Support & Guidance**

**Introduction**

The students are provided full support to complete the program in timely manner. The faculty members are available during office hours and students are encouraged to consult them in case they have any problem. Students are fully supported and advised in academic and extra-curricular activities by the faculty members of the department.

**Standard 4.1: Courses must be offered with sufficient frequency and number for students to complete the program in a timely manner.**

The course is offered regularly as per schedule. The degree consists of eight semester’s two terms per year.   
The department offers core courses in first two semesters of M.Sc. Program; while the courses of specialization are offered in the last two semesters. Minimum 05 students in a batch are required to offer the specialized course. This condition was related in just 3 years of the university. Maximum 50 students are taken in a class.

**Standard 4-2: Courses in the major areas of study must be structured to ensure effective interaction between student, faculty and teacher assistants.**

Every course offered in the program carry assignments, class presentations and practical work. Students have close interaction with their teachers for the guidance related to prepare their assignments and presentations.   
 Each instructor adopts his way to interact with his students either in the class or during the office hours. However no proper procedure is adopted for student teacher interaction. Improvement needs in this area to fulfill the requirements.

**Standard 4-3 Guidance on how to complete the program must be available to all students and access to academic advising must be available to make course decisions and careers choices.**

An orientation class is conducted in the start of every semester. In the orientation class, concerned faculty members provide a document containing program mission, objectives, outcomes, curriculum design & organization, assessment-methodology and attendance criteria.

Similarly, the contents of the document having program mission, objectives, outcomes are available to all students of the concerned course in shape of module description. The same document is also shared with the concerned Chairman/ HoD, Office of the QEC and Director Academics. Professional counseling is usually carried out by Student Career Counseling Committee constituted for the purpose. The students can also consult with the chairman of the department or with the office of the registrar. A faculty member is assigned responsibility to discuss and coordinate with students in taking the right decision about their career.

**CRITERION 5**

**PROCESS CONTROL**

**Criterion 5**

**Process Control**

The execution of the major functions, such as student admission and registration, faculty recruitment, teaching, and graduation are documented and conducted in a well-organized manner. These processes are controlled, periodically reviewed and evaluated continuously.

**Standard 5-1: The process by which students are admitted to the Program must be based on quantitative and qualitative criteria and clearly documented. The process must be periodically evaluated to ensure that it is meeting its objectives.**    
  
The admission criterion is set by the university and it is revised periodically. However, the admission of the students is the responsibility of the Director Academics office and the department is not directly involved in this process. The admission office gives admissions according to the criteria set by the university.   
  
**Admission Procedure:**

* The admission notice for BS (Hons) Program (4 years) is advertised in the national and local newspapers soon after the result declaration of FA/F.Sc of Balochistan Board of Intermediate & Secondary Education, Quetta. All the eligible candidates fulfilling the requirement can apply for the courses offered by the university.
* The prospective applicants are asked to submit their admission forms, complete in all respects, within the prescribed period of time.
* After a thorough scrutiny and sorting, the names of eligible candidates are notified.
* A candidate only can apply for one discipline/subject on a single form.
* Once submitted, no changes/modifications are acceptable in the admission form.
* A candidate gets to lose his/her right for admission, if he/she provides false information in the admission form. Moreover, if the documents attached were found fake they would be considered guilty of gross misconduct and such act shall be highly condemned.
* The applicant having 3rd division or having obtained marks less than 45% are not eligible to apply.

**Criteria for Admission:**

Students with F.Sc pre-engineering/F.Sc pre-medical or Equivalent with at least 45% marks are eligible to apply. The selected candidates for admission must present their original documents before the committee on the announced date.

**Documents to be submitted with admission form:**The following documents must be submitted with the completed application form:

1. Three recent color passport size photographs, duly attested
2. Attested photocopies of Detailed Marks Certificates (DMCs)
3. Attested photocopies of provisional /original certificates
4. Attested photocopy of character certificate
5. Attested photocopy of CNIC of the Applicant/Father/Guardian
6. Migration certificate, either board to university or university to university (admitted candidates only)
7. Original undertaking on judicial stamp paper of RS. 50/- each, duly attested by political agent/DCO/ First class magistrate as PS specimen provided in the prospectus (admitted candidates only)
8. Candidates applying against the reserved seats of disabled students must also attach the relevant documents of eligibility with the form Distribution of seats in each department is given as under:

**Test and** **Interview for Admission:**

* Written test of all eligible candidates will be conducted and pass out students will be interviewed on the dates specified by the office of the Director Academics.
* All the applicants will ensure their presence and signature in the attendance sheet on the day of test/interview.
* The university fee is to be deposited in HBL Turbat Branch. After depositing the prescribed fee, the applicant must bring the original bank receipt to the account section of the university.
* In case a student wants to shift from one discipline to another within a certain time period, the fee and other charges shall be adjusted accordingly.
* Any reserved seat remaining unfilled, at the prescribed time, shall be filled through open merit.

**Standard 5-2: The process by which students are registered in the program and monitoring of student progress to ensure timely completion of the program must be documented.**   
Each department shall send details of the admitted students to the Registrar office on the prescribed proforma for registration within one month of the finalization of 1st term/part-1/previous admissions. The office of the controller of examinations shall maintain record of all the registered students in manner which shall contain the Name, Father’s Name, Date of Birth, Permanent address, CNIC No. of the candidate, DMC of SSC and intermediate Examination, details of any other examination and result of every University Examination.

**Academic Progress of Students:**In semester system, monitoring of student progress is evaluated by tests, surprise quizzes, assignments, class presentation, projects and final exam at the end of the semester.   
  
**Internal Evaluation:**Attendance + Class participation =5 %   
Class Presentation =10 %   
Home Assignment =10 %   
Test and Quizzes =10 %   
Mid Term = 25 %   
Final Term = 40 %   
   
In addition to the above criteria, the experts of the subject can add any addition modes of evaluation as required by the nature of the subject. Similarly, if required, a teacher can have 3 to 5 tests and 1 -3 Mid Term tests.

**Standard 5-3: The process of recruiting and retaining highly qualified faculty members must be in place and clearly documented. Also processes and procedures for faculty evaluation**   
Recruitment of the faculty members is done on open merit by inviting the applications through newspapers.   
Written screening test is conducted for short listing. The candidates are required to appear before the selection board for interview. The names of selected candidates are recommended to syndicate for approval.   
After the approval, the registrar issues the offer letters for the appointment. Faculty members are made in accordance to the policy approved by HEC.   
  
 **Faculty’s Recruitment, Training, and Evaluation**

|  |  |  |
| --- | --- | --- |
| **Faculty** | **Policy** | **Process** |
| Recruitment | As per HEC guidelines | Through selection board (for permanent seats) and approval by the University Syndicate. Through HOD & VC (on contract and visiting basis) |
| Evaluation | As per HEC guidelines  (Periodically) | Evaluation by students through Quality Enhancement Cell (QEC) and Self-assessment by the faculty. (At the end of each semester) |
| Promotion | As HEC criteria for faculty promotion and service statute of University. | Through selection board and approval by the University Syndicate |

The performance of the faculty members is monitored regularly and continuously by the Chairman/HoD of the department, and it is evaluated annually through ACRs. (Annual Confidential Report) There was no systematic process before to evaluate the faculty members, now after establishment of QEC each faculty member is evaluated by the students via “Teacher Evaluation Questionnaire”. at the end of each semester.   
   
**Standard 5-4: The process and procedures used to ensure that teaching and delivery of course material to the students emphasize active learning and that course learning outcome is met. The process must be periodically evaluated to ensure that it is meeting the objectives.**Process to ensure teaching and delivery of course material:

* Time table is strictly followed by all faculty members. The Chairperson of the department frequently   
  gets feedback from the students during the semester.
* Students are show their test and papers in the show off session after every test and quiz, this process   
  in made sure by the HoDs. Students can see their papers marked by the teacher and view it.
* All the relevant materials (Tests, Assignments and Quizzes) of evaluation are submitted to the office   
  of the HoD. It purpose to ensure that the grading is transparent
* Award list of all sessional and final term papers is submitted to the controller of examination and copies are left in the department.
* In order to ensure that the teaching is effective a quarterly survey is conducted by the university QEC and the findings are communicated to the concerned faculty members. After completion of Survey Assessment Team meeting is called to assess the process and make implementation plan for the said department.

**Standard 5-5: The process that ensures that graduates have completed the requirements of the program must be based on standards, effective and clearly documented procedures. This process must be periodically evaluated to ensure that it is meeting its objectives.**   
Currently there is no proper procedure to assure that whether the graduates meet the program requirements or not. This area needs concentration to develop this procedure. Plan required for this area. As no graduates are yet produced. So no proper procedures to assure that the graduates meet the program requirements or not. This area needs concentration to develop this procedure. Further planning is required for this area.

**CRITERION 6**

**FACULTY**

**Criterion 6**

**Faculty**

Faculty members of the Turbat University are active in teaching and research activities and have the necessary technical depth to support the program. Teachers attempt to cover the curriculum adequately and in case of need hold extra classes.   
  
**Standard 6-1: There must be enough full time faculty who are committed to the program to provide adequate coverage of the program areas / courses with continuity and stability. The interest of all faculty members must be sufficient to teach all courses, plan, modify and update courses. The majority must hold a PhD degree in the discipline**   
The interest and qualifications of faculty members are sufficient to plan, teach, modify, and update all offered courses and curriculum. Following are the brief details of the departments’ faculty members.   
  
**Pen Picture of Faculty Members:**

|  |  |  |  |
| --- | --- | --- | --- |
| S.NO | NAME | DESIGNATION | QUALIFICATION |
| 1 | Dr. Haneef Ur Rehaman | Assistant Professor (Chairman) | Ph.D. |
| 2 | Dr. Attiq Ur Rehman | Assistant Professor | Ph.D. |
| 3 | Dr. Naeem Ullah | Assistant Professor | Ph.D. |
| 4 | Mr. Zafar Ahmed | Lecturer | M.Sc. Chemistry |
| 5 | Mr. Abdul Basti | Lecturer | M.Sc. Chemistry |
| 6 | Mr. Attiq Ur Rehaman | Lecturer | M.Sc. Chemistry |
| 7 | Mr. Najam Uddin | Lecturer | M.Sc. Chemistry |
| 8 | Ms. Gessid Nisar | Research Assistant | M.Sc. Chemistry |
| 9 | Ms. Mahnoor Sheran | Research Assistant | M.Sc. Chemistry |

**Standard 6-2: All faculty members must remain current in the discipline and sufficient time must be provided for scholarly activities and professional development. Also, effective programs for faculty development must be in place.**   
Faculty members of the Department of Chemistry, University of Turbat are considered updated in the discipline based on the following criteria:

All teachers meet the HEC criteria for appointment in their respective cadre.

* Teachers generally participate in seminars, conferences at National /International levels.
* Teachers take interest in teaching and involve themselves in research activities.
* A number of teacher training and refresher courses are conducted by QEC, and other academic departments in the university.

**Faculty development**

|  |  |
| --- | --- |
| **Standards** | **Y/N** |
| Faculty resume has been prepared in line with HEC | Yes |
| Full time faculty have sufficient time for scholarly activities and professional development. | Yes |
| Any faculty development program is conducted | Yes |
| Faculty programs are evaluated | Yes |
| Evaluation results of faculty are used for improvements | Yes |

**Standard 6-3: All faculty members should be motivated and have job satisfaction to excel in their profession**  
Currently, there is no any program has been conducted by university for the motivation of faculty members. For job satisfaction the university ensures fair, timely selection, appointment/promotion as per HEC criteria. Good working environment exists for research on commercial issues.

**CRITERION 7**

**INSTITUTIONAL FACILITIES**

**Criterion 7** **Institutional Facilities**

Institutional facilities, including library, class rooms and offices need improvement to support the objectives of the overall programs of the University. Class rooms and offices must be adequate to enable faculty to carry out their responsibilities.   
   
**Standard 7.1: The institution must have the infrastructure to support new trends such as e-learning.**   
Electronic library books and journals are not available for learning purpose.

* Insufficient facilities regarding the infrastructure to support new trends in learning.
* Insufficient library’s technical collection of books.
* Recommended books, relevant journals of the programs are not available to the students.
* However, this aspect needs to be strengthened for overall university departments.

**Following facilities are available at the department at the University Campus:   
   
Internet Facility** Limited internet facility is available for students.   
**Hostel Facility** Hostel facilities for boys and girls are available.   
**Canteen** Only one canteen is present for both boys and girls students within the campus.   
**Medical Facility** Currently there is no Medical facility is available in University.  
**Faculty Offices** Limited offices with limited facilities are available for the faculty.   
   
   
 **Standard 7.2: The library must possess an up-to-date technical collection relevant to the Program and must be adequately staffed with professional personnel.**  
The library space and books are not sufficient for department and is also not updated regularly according to the academic and research needs of the faculty staff. The University Central Library has very limited number of books and journals related to chemical science. It does not meet the standards of a university library. Departments itself does not have any library. The Library is not registered to any on-line journal or database cataloging and abstracting engines.

**Standard 7.3: Class room must be adequately equipped and offices must be adequate to enable faculty to carry out their responsibilities.**   
Majority of the class rooms are available without multimedia. Common rooms (Neither for male nor for female students) are also missing. The department lacks individual faculties offices mostly shared offices are available and class room facilities are also not sufficient.

**CRITERION 8**

**INSTITUTIONAL SUPPORT**

**Criterion 8**

**Institutional Support**

The university administration is trying to provide all the possible facilities to the departments and has been struggling hard for the up gradation of departments and establishing new faculties and institutes.   
  
**Standard 8.1: There must be sufficient support and financial resources to attract and retain high quality faculty and provide the means for them to maintain competence as teachers and scholars.**   
In order to groom the faculty, university usually offers various trainings, workshops and seminars for faculty.   
The University is also trying to attract highly qualified faculty. All the financial matters of the overall department are managed by University finance Directorate and Registrar office with no involvement of the department. Last year, the university arranged different trainings for service teachers both in main campus as well as in different universities of Pakistan like IBA and COMSATS. These training were of various length duration ranging from 3 to 14 days period.   
  
**Faculty Pay** is as per the institution & universities in the public sectors.   
   
**Standard 8.2: There must be an adequate number of high quality graduate students, research assistants and Ph.D. students.**   
The Department of Chemistry at University of Turbat is newly established. The department has research project and research assistants are working on it. The department also applied for NOC to HEC for initiating the M.Phil/Ph.D. There are currently only two PhDs faculty in the Department of Chemistry, University of Turbat. Moreover, they have no research allowance and get only 10,000/- PhD allowance. This area highly needs the concentration or focus of the authority.   
  
**Standard 8.3: Financial resources must be provided to acquire and maintain Library holdings, laboratories and computing facilities.**   
All the financial matters of the overall department are managed by the university Finance Directorate and Registrar office with no involvement of the department.

**FACULTY CVs**

|  |  |
| --- | --- |
| University of Turbat  Overseas Main Airport Road,  Turbat, Balochistan 92600  Pakistan | rehman.haneef8@gmail.com  Phone: 0092 85361017  Mobile: +92 321 2763968 |

**Haneef Ur Rehman, PhD, Biotechnology**

https://www.researchgate.net/profile/Haneef\_Rehman

**Education**

|  |  |
| --- | --- |
| ***Ph.D.***  *2010 – 2014*  ***M.Sc.***  *April 2006-June 2008*  *B.Sc.*  *2004-2005*  *F.Sc*  *2001-2003* | The Karachi Institute of Biotechnology & Genetic Engineering (KIBGE), University of Karachi.  M.Phil. leading to Ph.D., Biotechnology  Karachi, Pakistan  Biochemistry  Institute of Biochemistry, University of Balochistan, Quetta, Pakistan.  University of Balochistan, Quetta, Pakistan.  Govt. Atta Shad College Turbat, Turbat, Pakistan. |

**Thesis**

*Immobilization and Characterization of Pectinase from Bacillus Species Using Different Supports*

Research Experience

|  |  |
| --- | --- |
| *Feb 2015- Till Now* | **Assistant Professor**  University of Turbat, Department of Chemistry  Turbat, Balochistān, Pakistan |
| *Feb 2014 – Aug 2015* | **Assistant Professor**  Lasbela University of Agriculture, Water and Marine Sciences, Biotechnology  Uthal, Pakistan |
| *Mar 2011 – Dec 2013* | **Research Fellow**  The Karachi Institute of Biotechnology and Genetic Engineering (KIBGE), University of Karachi, Industrial Biotechnology  Karachi, Pakistan |

**Statistics**

|  |  |
| --- | --- |
| *RG Score* | 20.28 |
| *Publications* | 19 |
| *Total Impact Points* | 32.06 |
| *Reads* | 1,340 |
| *Citations* | 68 |

**Awards & Grants**

|  |  |
| --- | --- |
| *Mar 2011* | Scholarship: Research Fellowship |
| *July 9-11, 2012* | Best Poster Presentation Award, International Conference "BioCon-2012" 9-11 July, 2012 organized by Department of Biochemistry, University of Karachi, Pakistan. |

**Skills & Activities**

|  |  |
| --- | --- |
| *Skills* | PCR, Microbial Biotechnology, Gel Electrophoresis, Applied Microbiology, Microbiology, Native PAGE, Enzyme Immobilization, Microbial Isolation, Research Papers, SDS-PAGE, Zymography, Enzyme Kinetics, Production of enzymes from Microbial sources, Characterization of Enzymes, Enzyme Inhibitors, Industrial Biotechnology, Microbiology Techniques, Sodium Alginate, Enzyme Purification, Synthetic Biology, Bioinformatics, Biotechnological Techniques, Pectinase, Enzymes, Immobilization, Enzyme Activity, Enzyme Production, Electrophoresis, Protein Purification, Protein Characterization, Proteins, Protein Separation, Protein Chromatography, Protein Biochemistry, Ion Exchange Chromatography, Enzymology, Industrial Enzymes, Fermentation, Enzyme Catalysis, Fermentation Biotechnology, Enzyme Technology, Enzymatic Catalysis, Enzyme Engineering, Biocatalysis, Protein-Protein Interaction, Protein Electrophoresis, Native Electrophoresis, Protein Chemistry, Biotransformation, Bioinformatics and Computational Biology, Biotechnology, Biochemical Engineering, Applied Biology, Biochemistry, Green Chemistry, Chemical Biology, Pectins |
| *Languages* | Balochi, English, Urdu |

**Book Chapters**

Haneef Ur Rehman: *Improving the catalytic properties of pectinase from Bacillus licheniformis KIBGE-IB21 by entrapment in calcium alginate beads*. Biotechnology and Conservation Species From Arid Region, Edited by Sardar A Farooq, 01/2014: chapter 45: pages 5; Nova Publishers., ISBN: 978-1-63117-872-6 (eBook)

**Journal Publications**

Muhammad Asif Nawaz, Afsheen Aman, Haneef Ur Rehman, Zainab Bibi, Asma Ansari, Ziaul Islam, Ishtiaq Ahmad Khan, Shah Ali Ul Qader: *Polyacrylamide Gel-Entrapped Maltase: An Excellent Design of Using Maltase in Continuous Industrial Processes*. Applied biochemistry and biotechnology 02/2016; DOI:10.1007/s12010-016-2001-3

Haneef Ur Rehman, Afsheen Aman, Muhammad Asif Nawaz, Asad Karim, Maria Ghani, Abdul Hameed Baloch, Shah Ali Ul Qader: *Immobilization of Pectin Depolymerising Polygalacturonase Using Different Polymers*. International journal of biological macromolecules 10/2015; 82. DOI:10.1016/j.ijbiomac.2015.10.012

Muhammad Asif Nawaz, Haneef Ur Rehman, Zainab Bibi, Afsheen Aman, Shah Ali Ul Qader: *Continuous degradation of maltose by enzyme entrapment technology using calcium alginate beads as a matrix*. 09/2015; Volume 4,:250–256. DOI:10.1016/j.bbrep.2015.09.025

Abdul Hameed Baloch, Haneef Ur Rehman, Zakir Ibrahim, Mohammad Aslam Buzdar, Saeed Ahmad: *The Biology of Balochistani Weed: Cyperus rotundus Linnaeus. A Review*.

Haneef Ur Rehman: *Morphological and molecular based identification of pectinase producing Bacillus licheniformis from rotten vegetable*. Genetic Engineering and Biotechnology Journal 03/2015; DOI:10.1016/j.jgeb.2015.07.004

Aysha Kamran, Haneef Ur Rehman, Shah Ali Ul Qader, Abdul Hameed Baloch, Mustafa Kamal: *Purification and characterization of thiol dependent, oxidation-stable serine alkaline protease from thermophilic Bacillus sp.*. 02/2015; 22(1). DOI:10.1016/j.jgeb.2015.01.002

Haneef Ur Rehman: *Continuous degradation of maltose by enzyme entrapment technology using calcium alginate beads as a matrix*.

Haneef Ur Rehman, Afsheen Aman, Mohammad Asif Nawaz, Shah Ali Ul Qader: *Characterization of pectin degrading polygalacturonase from Bacillus licheniformis KIBGE-IB21*. Food Hydrocolloids 09/2014; 43. DOI:10.1016/j.foodhyd.2014.08.018

Haneef Ur Rehman, Mohammad Asif Nawaz, Afsheen Aman, Abdul Hameed Baloch, Shah Ali Ul Qader: *Immobilization of pectinase from Bacillus licheniformis KIBGE-IB21 on chitosan beads for continuous degradation of pectin polymers*. Biocatalysis and Agricultural Biotechnology 09/2014; 3(4). DOI:10.1016/j.bcab.2014.09.003

Haneef Ur Rehman, Afsheen Aman, Raheela Rahmat Zohra, Shah Ali Ul Qader: *Immobilization of pectin degrading enzyme from Bacillus lichernformis KIBGE IB-21 using agar-agar as a support*. 02/2014; 102(1):622-6. DOI:10.1016/j.carbpol.2013.11.073

Abdul Hameed Baloch, Haneef Ur Rehman, Muhammad Saeed, Mohsin Ali Kalhoro, Muhammad Aslam Buzdar: *The Curious Case of Mangroves Forest at the Sonmiani bay Area, Lasbela District, Pakistan: A review*.

Maria Ghani, Afsheen Aman, Haneef U Rehman, Nadir N Siddiqui, Shah A U Qader: *Strain improvement by mutation for enhanced production of starch-saccharifying glucoamylase from Bacillus licheniformis*. Starch - Starke 09/2013; 65(9-10). DOI:10.1002/star.201200278

Haneef Ur Rehman, Afsheen Aman, Alba Silipo, Shah Ali Ul Qader, Antonio Molinaro, Asma Ansari: *Degradation of complex carbohydrate: Immobilization of pectinase from Bacillus licheniformis KIBGE-IB21 using calcium alginate as a support*. Food Chemistry 08/2013; 139(1-4):1081-6. DOI:10.1016/j.foodchem.2013.01.069

Shah Ali Ul Qader, Haneef U Rehman, Afsheen Aman: *Degradation of important food ingredient (pectin) using polyacrylamide gel entrapped pectinase for continuous use*. Current Opinion in Biotechnology 07/2013; 24:S35. DOI:10.1016/j.copbio.2013.05.066

Uzma Asghar, Haneef Ur Rehman, Shah Ali Ul Qader, Zahida Tasneem Maqsood: *Influence of phytic acid and its metal complexes on the activity of pectin degrading polygalacturonase*. 06/2013; 95(1):167-70. DOI:10.1016/j.carbpol.2013.02.065

Haneef Ur Rehman: *Degradation of important food ingredient (pectin) using polyacrylamide gel entrapped pectinase for continuous use.*. Current Opinion in Biotechnology 01/2013;

Haneef Ur Rehman, Shah Ali, Ul Qader, Afsheen Aman: *Polygalacturonase: Production of pectin depolymerising enzyme from Bacillus licheniformis KIBGE IB-21*. Carbohydrate Polymers 09/2012; 90(1):387-391. DOI:10.1016/j.carbpol.2012.05.055

**Culture Bank Collection**

**GenBank Deposition (16S ribosomal DNA Cataloging)**

**1.** Zohra, R.R., **Rehman, H.U.,** Siddiqui, N.N., Karim, A., Aman, A., Ajmal, M., Hameed, A. and UlQader, S.A. Production and characterization of alpha amylase from thermophilic *Bacillus firmus* KIBGE-IB28**. 2013 (GenBank: KF241864.1).**

**2.** Ansari, A., Siddiqui, N.N., **Rehman, H.U.,** Pervez, S., Shahid, F., Bibi, Z., Aman, A. and Ul Qader, S.A. Identification of Methicillin sensitive *Staphylococcus aureus* KIBGE-IB24. **2013 (GenBank: KC465401.1).**

**3.** Ansari, A., Siddiqui, N.N., Ghani, M., **Rehman, H.U.,** Zohra, R.R., Aman, A. and UlQader, S.A. Identification of Methicillin-resistant *Staphylococcus aureus* KIBGE-IB23. **2013 (GenBank: KC465400.1).**

**4. Rehman, H.U.,** Aman, A., Ansari, A., Siddiqui, N.N., Ul Qader, S.A., Hameed, A. and Ajmal, M. Chracterization of pectinase producing strain of *Bacillus licheniformis* KIBGE-IB 21.**2012 (GenBank: JQ411812.1).**

**5.** Ansari,A., Aman, A., Siddiqui, N.N., Ghani, M., Zohra, R.R., Ul Qader, S.A., Hameed, A., **Ur Rehman, H**. and Pervez,S. Isolation and Identification of *Micrococcus luteus* KIBGE IB-20.**2012(GenBank: JQ250612.1).**

**Protein Bank Collection**

1. Ghani,M., **Rehman,H.U.,** Siddiqui, N.N., Aman, A. and Qader, S.A. Protein Sequence, Catalytic Activity, and Bio-physico-chemical Properties Glucoamylase from *Bacillus licheniformis* KIBE-IB3. **2013 (Accession No. C0HJE2).**

**Presentations in National/International Conferences**

1. Present Paper (Oral), entitled " Immobilization pectinase from Bacillus Sp. using different support" International Conference on Environmental Horizon-2016, Organized by Department of Chemistry, University of Karachi, Pakistan.

2. Present Paper (Oral), **entitled *“ Immobilization and Characterization of Pectinase from Bacillus sp. Using different Supports*”,** in **2nd International Conference on Sustainable Biotechnology**, held on 25-28th November, 2014, Organized by Department of Industrial Biotechnology, G.C. University Lahore, Pakistan.

3. Present Paper (Oral) Entitled “***Immobilization of pectinase from Bacillus licheniformis KIBGE-IB21 on chitosan beads from continuous degradation of pectin polymers*”** **One day seminar on Food Science** at Lasbela University of Agriculture, Water and Marine Sciences (LUAWMS), Uthal Balochistan.

4. PRESENT PAPER (ORAL) **entitled “*Polygalacturonase: Production of pectin depolymersing enzyme from Bacillus licheniformis* KIBGE-IB21. KIBGE-Lecture Series,**held on 28th February, 2013, organized by The Karachi Institute of Biotechnology and Genetic Engineering (KIBGE), University of Karachi, Karachi, Pakistan.

5. PRESENT PAPER (POSTER) **entitled “*Entrapment of enzyme in carbohydrate: An efficient method for increasing the stability of pectinase”***in the symposium on the title on “ ***New Horizons of microbiology***” held from 7-8thNovember, 2012 organized by Federal Urdu University, Karachi, Pakistan.

6. PRESENT PAPER (POSTER) **entitled “*Immobilization of pectinase within calcium alginate beads for continuous uses”*** In BioCon-012 Biochemistry in the Post-Genomic Era” held from 9-11th July, 2012 organized by Department of Biochemistry, University of Karachi, Pakistan.

**PARTICIPATION IN SEMINARS & CONFERENCES**

**2014** Attended Conference on **“*2nd International Conference on Sustainable Biotechnology****”* held on 25-28th November, 2014, Organized by Department of Industrial Biotechnology, G.C. University Lahore, Pakistan.

**2014** Attended Workshop on **“*Quantitative data analysis using SPSS software’*”** from 23rd-25th September, 2014 ,organized by QEC, Department, Lasbela University of Agriculture, Water and Marine Sciences (LUWAMS), Uthal, Pakistan.

**2013** Attended KIBGE-Workshop on **“*Research Communication Skills for Scientific Writing & Presentation*”** from 5-13th July, 2013,organized by Dr. A. Q. Khan Institute of Biotechnology and Genetic Engineering (KIBGE), University of Karachi, Pakistan.

**2012** Attended symposium entitled as ***“New Horizons of Microbiology”*** from 7-8th November, 2012 organized by Federal Urdu University, Karachi, Pakistan.

**2012** Attended 4th-ICLS-KIBGE conference entitled as ***"Science, Technology and Engineering: Innovative, yet responsible ”*** October 18, 2012 organized by Dr. A. Q. Khan Institute of Biotechnology and Genetic Engineering (KIBGE), University of Karachi, Pakistanin collaboration with the International council for Life Sciences.

**2012** Attended Four-Day KIBGE-Workshop on “***Biostatistical Tools in Genomics & Bioinformatics*”** September 19-22, 2012 organized by Dr. A. Q. Khan Institute of Biotechnology and Genetic Engineering (KIBGE), University of Karachi, Pakistan. Dr. Haneef Ur Rehman, Ph.D. (Biotechnology) **10**

**2012** Attended workshop entitled as ***“Essentials of Manuscript Writing”*** from September 1, 2012 organized by Dr. A. Q. Khan Institute of Biotechnology and Genetic Engineering (KIBGE), University of Karachi, Pakistan.

**2012** Attended conference on entitled as “***BioCon-2012Biochemistry in the Post-Genomic Era*”** held from 9-11rd July, 2012 at Department of Biochemistry, University of Karachi, Pakistan.

**2012** Attended workshop entitled as **“*Developing skills for the interpretation of 1D and 2D NMR spectral data for the structure determination of organic molecules*”** organized by VEPP (virtual education project Pakistan) and L.E.J. national science information center (ICCBS), university of Karachi, Pakistan.

**2011** Attended 3rd-ICLS-KIBGE Conference entitled as**“*Responsible Conduct of Science*”** from 14-15th November, 2011 held at Dr. A. Q. Khan Institute of Biotechnology & Genetic Engineering (KIBGE), University of Karachi, Pakistan.

**2011** Attended a four day workshop entitled **as “*Fermentation Strategies for the Production of Commercial Enzymes*”** held from 4-7th October, 2011, organized by Dr. A. Q. KhanInstitute of Biotechnology & Genetic Engineering (KIBGE), University of Karachi, Pakistan.

**2011** Attended workshop entitled as **“*Research Communication Skills*”** organized by Dr. A. Q. KhanInstitute of Biotechnology and Genetic Engineering (KIBGE), University of Karachi, Pakistan July 1-11 2011.

**2010** Worked as an organizer in the conference of 10th Biennial Conference of Pakistan Society for Biochemistry and Molecular Biology (PSBMB) entitled as **“*Biomolecular Sciences in Development*”** from 1-5th December, 2010, held at Dr. A. Q. KhanInstitute of Biotechnology & Genetic Engineering (KIBGE), University of Karachi, Pakistan.

**Zafar Ali**

**S/O Doshambay**

**Chemistry Department University of Turbat.**

🖁 **03248267529**  alizafar82@yahoo.com

***PERSONAL PROFILE:***

* Date of birth **:** 01 Jan, 1982
* Nationality **:** Pakistani
* Marital Status **:** Single
* C.N.I.C No **:** 52204-5087543-5
* Religion  **:** Islam
* District **:** Turbat (Kech)

***ACADEMIC QUALIFICATION:***

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Degree** | **Year** | **Division** | **Marks** | **Institution** |
| Matric | 2000 | 2nd | 468/850 | BBISE Quetta |
| F.sc | 2003 | 2nd | 552/1100 | BBISE Quetta |
| B.sc | 2006 | 2nd | 769/1600 | Karachi University |
| M.sc(Chemistry) | 2006 | 1st | 748/1000 | UOB Quetta |

***SHORT COURSES:***

1. Networking
2. Hardware
3. Ms Office

***EXPERIENCE:***

1. Two years teaching of various science subject.
2. Two years' experience medical technology at Agha Khan University lab.

***REFERENCES:***

1. Lecturer Mohammad Anwar Library, information and management science university of Balochistan Quetta

Mob: 03342875219

1. Lecturer Naseer Ahmed Govt college Quetta

Mob: 03327874079

**CURRICULUM VITAE**

**PERSONAL PROFILE:**

Name: Ateeq- ur- Rehman-Baloch

Father Name: Hafiz dost Muhammad

Address: Department of Chemistry UoT Balochistan.

Date of Birth: 01-May-1993

Domicile: Kalat

Citizenship: Pakistani

Gender: Male

Religion: Islam

Marital Status: Unmarried

Contact Number: (0300-3818593) (03322887474)

N.I.C. 51201-3943915-7

Email [Ateequrrehmanbaloch@gmail.com](mailto:Ateequrrehmanbaloch@gmail.com)

**EDUCATIONAL QUALIFICATION:**

|  |  |  |  |
| --- | --- | --- | --- |
| **INSTITUTION** | **PASSING YEAR** | **DEGREE** | **DIV/G.P** |
| University of Balochistan Quetta. | **2015** | **M.Sc Chemistry** | **1st Div** |
| University of Balochistan Quetta. | **2013** | B.Sc | **1st Div** |
| Balochistan board of intermediate and secondary education. | **2011** | **F.Sc** (Pre-Medical) | **1st Div** |
| Balochistan board of intermediate and secondary education. | **2009** | **S.Sc** | **2nd  Div** |
| M.Phil. | **Applied for admission** |  |  |

**SKILLS & EXPERIENCE:**

Quit good in teaching, as teaching since 2012 up to date, currently teaching M.Sc Physical chemistry at University of Turbat as permanent Lecturer new tonen, and teaching matric, F.Sc, B.Sc. Chemistry and Biology at Balochistan academy of sciences opposite degree college Saryab road Quetta.

**ACHIEVEMENTS**

* I have been honorably certified by the Chairperson of Department of Chemistry UoB. As all the M.Sc Final (Physical Chemistry) Practical’s are demonstrated by me and also he has involved me in research as Research Officer in many Research projects.
* Secondly I also conducted the B.Sc Physical Chemistry instrumentation practical’s at Degree College Kalat.
* In my carrier I also hold the honor of teaching at Govt College Quetta Hostel since 2012 to 2015 on nonprofit bases.
* Currently I am director of Balochistan Academy of Sciences, located near Poly Technique College and Govt College Quetta at Saryab road Quetta.

**EXTRA- QUALIFICATION:**

* B.Ed (1st division)
* Computer Course (MS- Office)
* English-Language Course (Uptil Level 4)

**COMMUNICATION SKILLS:**

**Ability To:**

* Write clearly and concisely, listen well.
* Speak Publicly.
* Interpret the dynamic of Inter-Personal relations.
* Distinguish fine shade of verbal and non-verbal message.

**LANGUAGE:**

* Urdu.
* English.
* Balochi.
* Bravhi.

**REFERENCES:**

Name: Prof Dr. Manzoor Iqbal Khattak

Designation: Professor (Chemistry) UoB Quetta.

Contact **#** 0302-5912029

Name: Professor Mohammad Aslam

Designation: Professor of Chemistry at Govt Degree College Kalat

Contact# 03326688942

Mahnoor Sheran

+923238399019

mahnoorsheran1@gmail.com

Department of Chemistry, University of Turbat, Kech.

**Objectives**

I am finding challenging opportunity with an institution, where I can utilize my communication skills and knowledge, I want to contribute to the institution with hard working, sincerity, patient and dedication.

**Education**

|  |  |  |  |
| --- | --- | --- | --- |
| **Year** | **Degree** | **Percentage** | **Institute** |
| 2015-2016 | B.Ed. | Continued | Allama Iqbal Open University |
| 2013-2015 | M.Sc. Chemistry | 60.75% | University of Punjab Lahore. |
| 2012 | B.Sc. | 70.8% | Government Girls Degree Collage Turbat |
| 2010 | F.Sc (Pre-medical) | 69.9 % | Kech Grammar School and Intermediate  College, Turbat, Balochistan. |
| 2008 | Matric (Science Group) | 76.9% | Kech Grammar School and Intermediate College, Turbat, Balochistan. |

**Achievements**

* Got Admission in **Institute Of Chemistry, University Of The Punjab** on the only reserved seat for Balochistan in 2013.
* Got position in overall academics years of school from nursery to matric
* Got **1st position** in writing competition titled as “**My Responsibility to Root out Cheating**” at DELTA institution in 2007.
* School Prefect for the academic year 2006-2008.

**Volunteer Projects**

**2014** Counseling of student of Balochistan for taking admission in different Universities of Pakistan.

**2014** Supported Baloch Girls for their placement in hostels and departments in University of the Punjab

**2008** Became a volunteer to collect funds for **earth quake victims of Awaran.**

**2005 A**ctive member of relief team for the earthquake victims of Abbottabad at school.

.

**Memberships and participation**

* + Member of Baloch Council University of the Punjab.
  + Attended **Seminar on DNA Modeling in GC University Lahore.**
  + Attended a seminar on **Curcumin (Turmeric) at Institute of Chemistry, University of the Punjab**.
  + Six month teaching experience at **Kech Grammar School and Intermediate College**.

**Technical skills**

|  |  |  |  |
| --- | --- | --- | --- |
| * MS Office | * MS Power Point | * Internet |  |

**Interests**

|  |  |  |  |
| --- | --- | --- | --- |
| * Poetries | * Discussion | * Creative Writing | * Photography |

**References**

Reference will be furnished on demand.

**CURRICULUM VITAE**

**Gissed Nisar**

MSc (MICROBIOLOGY)

E-mail #meershaizar@gmail.com

Cell # 0324-9091413

**Objective**:

To work in a vibrant and challenging environment where I can apply my skills and dedicate some knowledge with great hard work.

**PERSONAL INFORMATION**

Father’s Name Nisar Ahmed

Date of birth 05-02-1992

CNIC No. 52203-3273853-6

Nationality Pakistani

Local Turbat (District Kech)

Postal Address Meer Yaqoob MohallaVillage Absor, District Kech

Permanent Meer Yaqoob MohallaVillage Absor, District Kech

**ACADEMIC RECORD**

|  |  |  |  |
| --- | --- | --- | --- |
| **Degree** | **Passing year** | **Division/%age** | **Board/institution** |
| MSC | 2015 | 1ST | UOB Quetta |
| BSc | 2013 | 1ST | UOB Quetta |
| HSSC | 2011 | 1ST | BISE Quetta |
| SSC | 2009 | 1ST | BISE Quetta |

**COMPUTER SKILLS**

➢ Operating Systems

➢ Microsoft Office

➢ Hardware Software Installation

**LANGUAGES CAN SPEAK**

➢well versed in English, Urdu and Baluchi.

**WORKING EXPERIENCE**

➢Working in Department of Chemistry University of Turbat as Research Assistant and visiting faculty.

➢Teaching at Kech Grammar secondary school Turbat Kech.







