

# **SELF ASSESSMENT REPORT**

## **Department of Environmental Science Shaheed Benazir Bhutto University Sheringal**



**Submitted to  
Quality Enhancement Cell  
Shaheed Benazir Bhutto University Sheringal**

### **Program Team Members**

- |                     |                                   |
|---------------------|-----------------------------------|
| ❖ Miss. Riffat Aziz | (Chairperson)                     |
| ❖ Mr. Juma Muhammad | Lecturer in Environmental Science |
| ❖ Miss. Huma Zaman  | Lecturer in Environmental Science |

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## **ACKNOWLEDGEMENTS**

The present report is the first self-assessment report written for the Department of Environmental Science at Shaheed Benazir Bhutto University Sheringal, Dir Upper. The report represents the first step towards achieving Quality Assurance in higher education offered by the department. This report is a comprehensive campaign carried out by the department of Environmental Sciences, under the guidelines of HEC Self-Assessment Manual.

In preparing the present report, we rely mainly on the templates of self-assessment manual issued by the Quality Enhancement Cell, Shaheed Benazir Bhutto University, Sheringal. The report includes in its first part a definitive introduction to the Program Mission, Objectives and Outcomes of the degree offered. The second part consists of the Curriculum Organization. After that, the report reviews the required criteria for the self-assessment and the related standards according to the specifications of SAR. We hope that we have been successful in writing of this report, and that we achieve the minimum requirements of SAR. Continuous improvement is a focus of our department and is done every day as a natural part of our profession. We strive always to improve processes that are weak and fix processes that are broken.

I am thankful to all faculty members who provided valuable information included in this report. I hope that this report will be used to identify the strengths and weaknesses in the program, which after all, is the main objective of this exercise. We further hope that all points of strengths would be further enhanced and corrective actions will be taken to improve the weaknesses.

In preparing of this report, I must acknowledge the contribution of Mr. Ibrar Hussain, Assistant Director QEC and the support provided by the Quality Enhancement Cell, Shaheed Benazir Bhutto University of Sheringal.

**Miss. Riffat Aziz**  
**Chairperson**  
**Department of Enviornmental Science**  
**Shaheed BB University Sheringal Dir (U)**

## **INTRODUCTION**

The main purpose of the QEC is to use the yard sticks of Self-Assessment (SA) to improve the quality in different quarters of the academia. The basic theme in any SA activity is not only to accept the demerits and other weaknesses identified by the stakeholders but to improve the overall performance of the department.

The self-assessment is the part of Quality Enhancement. There are three parts of the Quality Enhancement Assessment. First the teachers themselves prepare the weekly plan and semester plan bifurcating the mid-term, semester breaks and final term examination including the assignments, quizzes, tests and class presentations. Secondly, the teaching quality assessment of faculty is carried out in two parts; one of them is completed by the student which is a continuous and repeated activity carried out in each semester before the final examination. The second part is carried out from the quality of papers and coverage of course. Third is the provision of facilities like research, library, net-work, laboratories, and computer facilities (institutional facilities and institutional support).

Under the umbrella of QEC, the Self-Assessment Program is being implemented in the departments of Environmental Sciences, Shaheed Benazir Bhutto University, Sheringal. This is a great step in improving students' learning and evaluating in compliance with academic and learning standards of HEC. The office of QEC has conducted seminars and meetings with Chairmen/ Program Team members and faculty members, to clear the vision of QEC in the context of Self-Assessment.

**CRITERION 1**  
**PROGRAM MISSION, OBJECTIVES AND OUTCOMES**

## **UNIVERSITY MISSION AND OBJECTIVES**

1. To enlighten the darkness of this remote area through education.
2. To preserve & conserve the “Natural Resources” of this area through human resource development.
3. To enlighten the youngsters, Girls & Boys with educational power to serve the nation in various fields.
4. To act as an “Intellectual Fort” against anti-state mentality through education.
5. To make the University one of the best institutes for learning and research

## **DEPARTMENT OF ENVIRONMENTAL SCIENCE**

The global environmental problems like, Green House Effect, Ozone layer depletion, Desertification, Deforestation, Species extinction, Drought, Land degradation, etc., are increasing rapidly with the passage of time. Pollution of water, air, noise, soil is increasing day by day. Keeping in view the scope & significance of the environment at national and international level, Shaheed Benazir Bhutto University has started the Department of Environmental Sciences in September, 2009.

## **PROGRAM MISSION**

- To train students for governmental, and educational employment in the field of environment
- To impart environmental knowledge, skills and ethical values in the graduate
- To be a center of excellence for Environmental knowledge
- To develop analytical approach for research
- To be familiar with environmental problems occur from local to global

**Standard 1-1: The program must have documented measurable objectives that support faculty / college and institution mission statements**

1. To produce environmentalists for various organizations so that they can be useful for those organizations in maintaining the pollution free environment.
2. To analyze assess current environmental problems.
3. To make the students aware of the debate pertaining to issues such as water pollution, air pollution, noise pollution, their causes, severity and sustainable development.
4. To get ability to conserve and use local resources sustainably.
5. To find the way that how environmentalists grow country economy.
6. Conservation and preservation of biodiversity.
7. To plan application to develop environment friendly industries.

**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 graduates environmentalists in the field of Environmental Sciences.  
The overall outcomes of the course are as under:

1. The ultimate goal of sustainable development will be achieved.
2. Social, economical and environmental problem will solve.
3. Environmental Science will develop and train high skilled graduate to tackle the growing environmental challenges locally and globally.
4. Graduate of this department will seek job opportunities in the different sector of society which will improve the environment.
5. An understanding of professional and ethical responsibility

Objective	How Measured	Measured When	Improvement Identified	Improvement Made
1	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.			
2				

### Objective vs Outcomes

PROGRAMME OBJECTIVES	OUTCOMES			
	1	2	3	4
To produce environmentalists for various organizations so that they can be useful for those organizations in maintaining the pollution free environment.		*	*	*
To make the students aware of the debate pertaining to issues such as water pollution, air pollution, noise pollution, their causes, severity and sustainable development.		*	*	*
To get ability to conserve and use local resources sustainably.	*	*	*	*
To find the way that how environmentalists grow country economy.				*
To plan application to develop environment friendly industries.	*		*	

**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.

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

Present students' enrolment (BS Environmental Science)

Year	Enrollment
2009	19
2010	13
2011	10
2012	11

**CRITERION 2**  
**CURRICULEM 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 **BS (Environmental Science)** 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	5
Env-301: Introduction to Environmental Science Env-305: Basic Chemistry	*	*			
Env-402: Fundamental of Ecology Env-403: Environmental Chemistry Env-406: Environmental Pollution	*	*	*		
Env-506: Environmental management System Env-507: Environmental Economics Env-508: Biodiversity & conservation	*	*	*	*	*
Env-601: Climate Change Env-602: Environmental Laws & Policies Env-605: Natural Resources Management			*	*	*
Env-603: Environmental Impact Assessment Env-606: Pollution Control Technology Env-607: Research Methods in Environmental science	*	*		*	*

**Standard 2-2: Theoretical background, problems analysis and solution design must be stressed within the program’s core material.**

Applications of mathematics & Statistic offer in the program to solve the problem of mathematical & Statistical calculations.

Course	Percentage
Core Subjects	80
Basic Sciences & Humanities subjects	20

**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 **BS (Environmental Science) program**

Sr.#	Category	Credit Hours	Credit Hours
1	Computing Courses		64
	Core Courses	34	
	Supporting Areas	12	
	General Education	18	
2	Environmental Science Courses		51
	Core Courses	21	
	Electives Courses	21	
	Supporting Courses	9	
3	University Electives		18
	<b>Total Credit Hours</b>		<b>133</b>

**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. The following table shows how the BS Environmental Science program satisfies requirements in standards 2-3, 2-4 and 2-5. It's clear from the table that all requirements are met.

S.No	Category	Credit Hours	Credit Hours
<b>Environmental Sciences Courses</b>			
1.	<b>Core Courses</b>	<b>66</b>	<b>126</b>
	<b>Supporting Courses</b>	<b>40</b>	
	<b>General Courses</b>	<b>20</b>	
2.	<b>Electives</b>	<b>12</b>	<b>12</b>
		<b>Total Credit Hours</b>	<b>138</b>

## **BS (ENVIRONMENTAL SCIENCE) PROGRAM**

Program Duration:	4 years
Teaching System:	Semester System
Start of Sessions:	September
Admission Criteria:	F.Sc.
Total Seats:	20

### **SEMESTER-I**

<b>Course Code</b>	<b>Course Title</b>	<b>Credit Hours (Theory-Practical)</b>
Env-301	Introduction to Environmental Science	3 (3-0)
Env-303	Biology-I	3 (2-1)
Env-305	Basic Chemistry	3 (2-1)
Env-307	Mathematics-I	3 (3-0)
Env-309	English-I	3 (3-0)
Env-311	Pakistan Studies (Compulsory)	2(2-0)
<b>Total Credit Hours</b>		<b>17</b>

### **SEMESTER-II**

<b>Course Code</b>	<b>Course Title</b>	<b>Credit Hours (Theory-Practical)</b>
Env-302	Introduction to Earth Sciences	3 (2-1)
Env-304	Introduction to Computer	3 (3-0)
Env-306	Biodiversity & conservation	3 (3-0)
Env-308	Sociology	3 (3-0)
Env-310	English-II (Communication Skills)	3 (3-0)
Env-312	Islamic Studies (Compulsory)	2 (2-0)
<b>Total Credit Hours</b>		<b>17</b>

### **SEMESTER-III**

<b>Course Code</b>	<b>Course Title</b>	<b>Credit Hours (Theory-Practical)</b>
Env-401	Biology-II	3 (3-0)
Env-403	Environmental Chemistry	3 (2-1)
Env-405	Environmental Physics	3 (2-1)
Env-407	Introductory Economics	3 (3-0)
Env-409	English –III (Technical Writing and Presentation Skills)	3 (3-0)
Env-411	Soil and Environment	3 (3-0)
<b>Total Credit Hours</b>		<b>18</b>

### **SEMESTER-IV**

<b>Course Code</b>	<b>Course Title</b>	<b>Credit Hours (Theory-Practical)</b>
Env-402	Fundamentals of Ecology	3 (3-0)
Env-404	Environmental Microbiology	3 (2-1)
Env-406	Environmental Pollution	3 (3-0)
Env-408	Climatology	3 (3-0)
Env-410	Psychology	3 (3-0)
Env-412	English–IV (University optional)	3 (3-0)
<b>Total Credit Hours</b>		<b>18</b>

**SEMESTER-V**

Course Code	Course Title	Credit Hours (Theory-Practical)
Env-501	Applied Ecology	3 (3-0)
Env-503	Environmental Toxicology	3 (2-1)
Env-505	Environmental Profile of Pakistan	3 (3-0)
Env-507	Environmental Economics	3 (3-0)
Env-509	Analytical Techniques in Environmental Science	3 (1-2)
Env-511	Introduction to Biochemistry	3 (3-0)
<b>Total Credit Hours</b>		<b>18</b>

**SEMESTER-VI**

Course Code	Course Title	Credit Hours (Theory-Practical)
Env-502	Environmental biotechnology	3 (2-1)
Env-504	GIS & Remote Sensing	3 (2-1)
Env-506	Environmental Management Systems	3 (2-1)
Env-508	Statistics	3 (3-0)
Env-510	Environmental Monitoring	3 (3-0)
Env-512	Disaster Management	3 (3-0)
<b>Total Credit Hours</b>		<b>18</b>

**SEMESTER-VII**

Course Code	Course Title	Credit Hours (Theory-Practical)
Env-601	Climate Change	3(3-0)
Env-603	Environmental Impact Assessment	3(3-0)
Env-605	Natural Resource Management	3(3-0)
Env-607	Research Methods in Environmental science	3(3-0)
Env-609	Seminar	3(3-0)
Env-611	Urban Planning and Management	3(3-0)
<b>Total Credit Hours</b>		<b>18</b>

**SEMESTER-VIII**

Course Code	Course Title	Credit Hours (Theory-Practical)
Env-602	Environmental Laws & Policies	3 (3-0)
Env-604	Health and Environment	3 (3-0)
Env-606	Pollution Control Technology	3 (3-0)
Env-608	Research Project / Internship	3 -6
<b>Total Credit Hours</b>		<b>12- 15</b>

**Standard 2-6: Information technology component of the curriculum must be Integrated throughout the program**

Information technology component is given important in the curriculum. The following courses, of Information technology have been included in the syllabus. As information technology is very important and play very vital role in Higher Education, for this purpose improvement is needed in this area.

<b>Course for IT</b>	<b>Course Code</b>
Introduction to Computer	Env-304

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

Oral and written communication has been given importance in the program. To develop the oral and written communication skills of students, some courses relating to it have been included in the program. The following courses, of English have been included in the syllabus.

<b>Courses for oral and written skills</b>	<b>Course code</b>
English-I	Env-309
English-II (Communication Skills)	Env-310
English –III (Technical Writing and Presentation Skills)	Env-410
English–IV (University Optional)	Env-412

**CRITERION 3**  
**LABORATORIES AND COMPUTING FACILITIES**

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

There is no specific laboratory in department although a limited number of equipment's are present in department. Which are not fulfilling the experimental needs of the students.

**List of equipment:**

<b>S.No</b>	<b>Equipment Name</b>	<b>Quantity</b>
1	Prism	18
2	Lux meter	2
3	Thermometer	4
4	Wooden thermometer	8
5	Humidity temperature	2
6	Sound meter	8
7	GPS	1
8	Spectrophotometer	1
9	Flame photometer	1
10	Water bath	1
11	PH meter	1
12	Turbidity meter	1
13	Conductivity meter 3173	1
14	Electric hot plate 2061	1
15	Electric balance	1
<b>TOTAL NO OF EQUIPMENT</b>		<b>51</b>

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

There is no adequate support personal for instructions and maintaining the laboratories.

**Standard 3-3: The university computing infrastructure and facilities must be adequate to support programs objectives.**

There is no computing infrastructure and facilities in department.

**CRITERION 4**  
**STUDENTS SUPPORT & ADVISING**

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 six semesters of BS Program; while elective courses are offered in the last two semesters. Minimum 15 students in a batch are required to offer the course. This condition was related in just 3 years of the university. Maximum 40 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**

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/FSc of all Boards of Intermediate & Secondary Education of Khyber Pukhtunkhwa. 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 may apply for three disciplines/subjects on a single form, but he/she must prioritize his/her options in the admission 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 3<sup>rd</sup> division or having obtained marks less than 45% are not eligible to apply.

**Criteria for Admission:**

Students with FSc pre-engineering/FCS 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. 20/- 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 or Afghan students must also attach the relevant documents of eligibility with the form

Distribution of seats in each department is given as under:

Open merit	26
<b>Reserved Seats:</b>	
Female	2
Afghan	01
Disabled/Handicapped	01
<b>Total:</b>	<b>30</b>

#### **Displaying of merit lists:**

After the closing date of admission forms submission, the provisional merit lists are prepared on the basis of the following points:

- Percentage of marks obtained in FA/FSc
- In case of a tie in any merit position, SSC marks percentage is considered. In case of further tie, the age of the applicants is the determining criteria and the older candidate is to get preference.
- Separate merit list are prepared for the reserved seats of female, Afghan students and disabled following the above criteria.
- All the merit lists for admission are displayed on the main notice board of the university campus and on the university website <http://www.sbbu.edu.pk>

**Interview of specified seats:**

- Interview for the specified seats of Afghan students and disabled are held 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, even if they are on waiting list.
- The university fee is to be deposited in HBL Sheringal Branch, adjacent to university campus. 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 students progress to ensure timely completion of the program must be documented.**

Each department shall send details of the admitted students to the controller of examinations on the prescribed proforma for registration within one month of the finalization of 1<sup>st</sup> 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**

<b>Faculty</b>	<b>Policy</b>	<b>process</b>
Recruitment	As per HEC guidelines	Through selection board (for permanent seats) and approval by the University Syndicate. Through HOD & VC (on contract 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 SBB 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. Its purpose is 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**

Faculty members of the Shaheed BB 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:**

Name: Miss. Riffat Aziz  
Designation: Lecturer (Chairperson)  
Email: [urwa.khattak@ymail.com](mailto:urwa.khattak@ymail.com)  
Address: Department of Environmental Science, SBB University  
Qualification: Master in Environmental Science

Name: Mr. Juma Muhammad  
Designation: Lecturer  
Address: Department of Environmental Science, SBB University  
Qualification: Master in Environmental Science

Name: Miss. Huma Zaman  
Designation: Lecturer  
Address: Department of Environmental Science, SBB University  
Qualification: Master in Environmental Science

Name: Mr. Fazli Aziz  
Designation: Lecturer  
Address: Department of Environmental Science, SBB University  
Qualification: M.Phil

**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 Shaheed BB University 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**

<b>Standards</b>	<b>Y/N</b>
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**

Every year university awards Best University Teacher Award to faculty members for their outstanding performances. Outstanding Teachers are selected based on Students Teacher Evaluation Questioner, Peer Evaluation and HoD Evaluation. 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**

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**

Limited hostel facilities for boys are available.

**Canteen**

Separate girl's canteen is present for girl students within the campus.

**Medical Facility**

University is Basic Health Unit (BHU) for the facilitation of students, though currently there is no medical practitioner in the BHU. It is run by a pharmacist who is assisted by a dispenser.

**Faculty Offices**

Offices with in adequate 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 university and is also not updated regularly according to the academic and research needs of the university staff. The university Central Library has very limited number of books and journals. 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 faculty offices mostly shared offices are available and class room facilities are also not sufficient.

**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 10 trainings for in service teachers both in main and sub campus at Chitral. These training were of various length duration ranging from 3 days to one month 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 university is newly established so there is no research assistant. However Phil students are perusing different research projects in the university, under the supervision of their teacher. There are currently only five PhDs in the university. Moreover they have no research allowance and get only 5000/- PhD allowance which is not equal to other universities. 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.