

DEPARTMENT OF GEOGRAPHY
LAHORE COLLEGE FOR WOMEN UNIVERSITY, LAHORE

SELF-ASSESSMENT REPORT

BS GEOGRAPHY

Submitted to

Quality Enhancement Cell,

Lahore College for Women University, Lahore

Dated:

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INTRODUCTION

The Department of Geography has the honor to be one of the oldest departments of Lahore College for Women University, Lahore. Right from the beginning, Geography department has been producing knowledgeable students at intermediate and graduate levels. The Department owes a great deal of gratitude to the eminent teachers and professors like Mrs. Bilquis Qureshi, Dr.



Maryam Khan ,Ms. Ruqia Rafique, Mrs. Akram, Mrs. Saeeda Karamat Mrs. Sadiqa Nasir and Mrs. Bushra Sharif who contributed towards the progress and betterment of department and worked as the Head of the department respectively. The department launched BS (4-Year) Degree Program in 2011. Presently, Mrs. Aysha Faisal is working devotedly as the Incharge of the Department. As a step towards academic development, A GIS Lab has been installed with the effort of Mrs. Aysha Faisal.

CRITERION 1: PROGRAM MISSION, OBJECTIVES AND OUTCOMES

1.1.1 Mission Statement of Department of Geography

The mission of the Geography Department is to help students develop their vision and interest, expand their understanding of the interaction between people and their environment and explore the means to synthesize them for the benefit of society in terms of monitoring situations, implementation of strategies and future planning.

Department of Geography offers BS (4-years) degree with following particulars:

Name of Program	Duration	No. of Modules (Semesters)	Total Credit Hrs
B.S Geography	4 years	8 semesters (Internship/Research)	133

1.1.2 a. Mission of BS Program

To impart up to date knowledge and practical skills amongst Geography students through high quality class teaching and laboratory work. It also aims at grooming them to become contributing persons for the humanity.

1.1.2. b. BS Program Objectives

- To create understanding of Physical and cultural environment
- To develop skills for analytical study of man-environment interaction
- To develop skills in map reading and cartography
- To introduce simple quantitative methods in geography
- To enhance understanding of physical and cultural milieu of Pakistan and its provinces
- To create understanding of GIS and Remote Sensing, among the students
- To enable students to carry out research projects independently, including data collection, data processing and data presentation in a report, thesis, ACP (Active citizenship Program)
- To enhance communication and presentation skills

1.1.3. Aligning program objectives of BS Geography

The program objectives of LCWU BS program, are well aligned with the BS Geography program objectives. The program imparts up to date knowledge and practical skills amongst Geography students through high quality class teaching and laboratory work and grooming them to become contributing persons for the humanity.

1.1.4 Assessment of Educational objectives:

Table 1: BS Program Objectives Assessment

Objectives (1)	How Measured (2)	When Measured (Frequency) (3)	Improvement Identified (4)	Improvement Made (Corrective & Preventive Action) (5)
As given in Para 1.1	The students are assessed regularly for their knowledge and ability through	There is at least one quiz or presentation before midterm exams and one	1. Students and teachers both required to be more regular	1. Attendance rules applied strictly

	different methods Like: 1) Quiz/ presentations	before final term exams	2. Enhancing communications skills, revision of course/curriculum	2. Teachers training and development
	2) Class room discussions	Class discussions are conducted regularly throughout the semester	3. Guidance of students about any problem	3. Making courses more interactive and interesting by active participation of teachers and students
	3) Examinations	One midterm and one final term in each semester	4. Tutorials	4. Encouraging teachers to teach with more updated, relevant and daily life examples
	4) Practical Assignments	Practicals are conducted as per course requirement	5. Teachers' training about new teaching methods	5. Introducing new courses
	5) Scientific Report writing Project	In semester 7 students are supposed to conduct a group research and write its full report	6. Revising course outlines of some subjects and shuffling a couple of subjects across semesters on students'	
	6) Internship report or Thesis	In final semester students		

		submit either internship report or thesis work (separate from scientific report writing) and it is evaluated by external examiner	recommendation	6. Arranging national / international level seminars, lectures, workshops and symposiums and encouraging students of actively participate in them
	8) Class exercises	As per course requirement		
	7) Teacher's evaluation by students	During semester or at end teacher evaluation is done by students		7. Immediately trying to sort out the solutions if some complaints are put forward by students

Standard 1.2: The program must have documented outcomes for graduating students. It must be demonstrated that the outcomes support the program objectives and that graduating students are capable of performing these outcomes.

1.2 Program Outcomes:

Students shall be able to:

1. Have understanding of geography as a subject so that they become professionals and have the capability to adapt to any challenge that may offer within their careers
2. Work in environmental based organizations e.g. EPA, that deal with the results of man-environment interaction and methodologies to combat them
3. Become efficient map interpreters
4. Apply quantitative techniques in geography and be able to draw conclusions
5. To understand Pakistan's geographical landscape and economic conditions, and serve in institutions like, Statistical Bureau, Dept. of Demography etc
6. Understand the conceptual framework of spatial and attribute data models, and perform complex analysis and presenting the results using Arc GIS and other advanced software
7. Achieve educational standards, precisely writing and presentation skills

Table 2: BS Program Outcomes

Program Objectives	Program Outcomes				
	1	2	3	4	5
1					✓
2			✓		
3				✓	
4			✓		
5			✓		
6				✓	
7				✓	

Standard 1.3: The results of program's assessment and the extent to which they are used to improve the program must be documented.

1.3.1 Actions taken on the basis of assessment:

- Syllabi revision
- Faculty development (Seminars and Lectures)
- Infrastructure Development

1.3.2 Strengths of Department

- Working Environment
- Team work

1.3.3 Weaknesses of Department

- Small infrastructure of department
- Insufficient lecture rooms, Surveying Lab.
- Lack of computer systems in GIS Lab.
- No Separate room for Staff members
- Faculty – No. of PhD faculty needs improvement
- Computer Operator for Lab
- Departmental Library
- A Clerk is required to Perform Official Work (maintenance of Records and paper work)

Future Plans

- 1) Four faculty members are enrolled in PhD programs in PU, Pakistan.
- 2) Holding of Lectures and Seminars on regular basis.
- 3) Arranging of field trips, geography quizzes and contests at regular intervals.

Standard 1.4: The department must assess its overall performance periodically using quantifiable measures.

1.4.1 Performance Measures:

- Teacher evaluation Performa (Carried out by QEC)
- i) **Table 3: No. of Students Enrolled**

Program	Session	No. of Students		Total
		Major	Minor	
BS Program	2006-2007		22	22
	2007-2008		68	68
	2008-2009		78	78
	2009-2010		82	82
	2010-2011		103	103
	2011-2015	17	16	33
	2012-2016	48	12	60
	2013-2017	58	25	83
	2014-2018	46	49	95
	2015-2019	44	14	58
	2016-2020	39	37	76

ii) **Table 4: Student-Faculty Ratio**

Year	No. of Students	No. of Faculty Members	Student-Faculty ratio
2016-2017	238	7	34 :1
2015-2016	259	5	51:1
2014-2015	243	6	40:1
2013-2014	263	6	44:1
2012- 2013	278	4	69 :1
2011-2012	296	3	98 :1
2010-11	331	3	110:1

iii) **Table 5: No. of Students Passed Out**

Program	Passing out Year	No. of Students
BS	2016	48
	2015	17

i) **Table 6: Percentage of Honor Students & Attrition Rate**

Year	% age of Honor Students Criteria: CGPA 3.75 and above	Attrition Rate ($\frac{\text{Admitted -pass out}}{\text{Admitted}}$) *100
2012-2016	30 percent (as per 8 th semester result)	27 %
2011-2015	N.A.	17 %

v) **Table 7: Faculty Training, Seminars and workshops (Appendix A)**

Year	No. Of Trainings, Seminars and workshops
2011	3
2012	8
2013	7
2014	16
2015	9
2016	3

vi) **Papers Published at National & International Level****Table 8: Number of Publications (Appendix B)**

Year	Papers published
2016	1
2015	3
2014	3

vii) **Books in Library**

Year	No. of books
2012	21
2013	33
2014	25
2015	26
2016	13
	Total= 118

Research Areas

The Faculty is involved in research in the following areas:

- Climatology and meteorology
- Environmental geography

- Medical geography
- Population geography
- Agricultural geography
- Urban geography

Collaborations

- ✓ MET office Lahore
- ✓ Geography department, GCU
- ✓ Geography department, Punjab university

Departmental Achievements (others)

- Inter-quiz competition winner
- Establishment of GIS lab

Honors and Awards

N.A.

CRITERION 2: CURRICULUM DESIGN AND ORGANIZATION

The development of curriculums for BS program of Geography is based on the detailed curriculum development guidelines issued by HEC.

BS (4-Year) GEOGRAPHY

STRUCTURE OF SCHEME OF STUDY

Nature of Courses	Numbers of Course	Credits Hours
Compulsory Course (No choice)	07	19
Basic Course	05	18
Foundation Course	11	39
General / Minor Courses	09	33
Major Courses	04	12

Research Report	02	06
Total Credits	01	06
	39	133

YEAR-1**SEMESTER-I**

Course No	Course Title	Credits
CC/Eng-101	Language in use	3(3+0)
CC/Isl-101/ CC/Phil-101	Islamic Education / Ethics (For Non Muslims)	2(2+0)
Maj/Geo-101	Fundamentals of Geography	4(3+1)
Min/Stats-101(g)	Statistics-I	4(3+1)
Min/Eco-101	Micro Economics	3(3+0)
	Total Credits	16

SEMESTER-II

Course No	Course Title	Credits
CC/Eng-102	Academic Reading & Writing	3(3+0)
CC/PS-102	Pakistan Studies	2(2+0)
Maj/Geo-102	Physical Geography	4(3+1)
Min/Stat-102(g)	Statistics-II	4(3+1)
Min/Eco-102	Macro Economics	3(3+0)
	Total Credits	16

YEAR-2**SEMESTER-III**

Course No	Course Title	Credits
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CC/Eng-201	Communication Skills	3(3+0)
Maj/Geo-201	Human Geography	3(3+0)
Maj/Geo-202	Map Work	4(1+3)
EC/CS-201	Introduction to Computer Science	3(2+1)
Min/Stat-201(g)	Stats -III/	4(3+1)
Min/Eco-201	Mathematical Economics (Choose any one)	
	Total Credits	17

SEMESTER-IV

Course No	Course Title	Credits
CC/Eng-202	Advanced Academic Reading & Writing	3(3+0)
Maj/Geo-203	Geography of Pakistan	4(3+1)
Maj/Geo-204	Principles of Cartography	4(2+2)
CC/Maths-101	Basic Mathematics	3(3+0)
EC/Env.-202	Introduction to Environment	3(3+0)
	Total Credits	17

YEAR-3

SEMESTER-V

Course No	Course Title	Credits
Maj/Geo-301	History & Development of Geographic Thought	3(3+0)
Maj/Geo-302	Geomorphology	4(3+1)
Maj/Geo-303	Economic geography	3 (3+0)

Maj/Geo-304	Surveying	4(1+3)
Maj/Geo-305	Oceanography	3(3+0)
	Total Credits	17

SEMESTER-VI

Course No	Course Title	Credits
Maj/Geo-306	Climatology & Meteorology	4(2+2)
Maj/Geo-307	Environmental Geography	3(3+0)
Maj/Geo-308	Quantitative Geography	3(3+0)
Maj/Geo-309	Population geography	3(3+0)
Maj/Geo-310	Region and Regional concepts	4(4+0)
	Total Credits	17

YEAR-4

SEMESTER-VII

Course No	Course Title	Credits
Maj/Geo-401	Fundamentals of GIS	4(3+1)
Maj/Geo-402	Settlement Geography	4(3+1)
Maj/Geo-403	Research Methods	3(3+0)
Maj/Geo-4-*	Choose from group A, B or C	3(3+0)
Maj/Geo-4-*	Choose from group D, E, or F	3(3+0)
	Total Credits	17

SEMESTER-VIII

Course No	Course Title	Credits
Maj/Geo-404	Principles of Remote Sensing	4(3+1)
Maj/Geo-4-*	Choose from group A, B or C	3(3+0)
Maj/Geo-4-*	Choose from group D, E or F	3(3+0)
Maj/Geo-405	Research Project/Internship	6(0+6)
	Total Credits	16

Total Hours: 16+16+17+17+17+17+17+16=133 CR

*The course will be selected by the student from Group A, B, C, D, E or F on the availability of faculty member expertise and number of students.

**Research Project/Internship will be offered in 7th Semester.

Curriculum Break up

Table 10: Curriculum Break up

STRUCTURE OF SCHEME OF STUDY		
Nature of Courses	Numbers of Course	Credits Hours
Compulsory Courses (No choice)	07	19
Minor Courses form other discipline	05	18
Major Courses	11	39
Foundation courses	09	33
Elective Courses within major	04	12
Elective Courses outside major	02	06
Internship/Research Report	01	06
Total Credit Hours	39	133

Standard 2.1: The curriculum must be consistent and supports the program's documented objectives.

BS program contents/courses meet the program outcomes as shown in the table below.

Table 11: Courses versus Program Outcomes

Courses	Program Outcomes				
	1	2	3	4	5
Maj/Geo-101 Fundamentals of Geography					✓
Maj/Geo-102 Physical Geography					✓
Maj/Geo-201 Human Geography					✓
Maj/Geo-202 Map Work				✓	
Maj/Geo-203 Geography of Pakistan				✓	
Maj/Geo-204 Principles of Cartography				✓	
Maj/Geo-301 History & Development of Geographic Thought				✓	
Maj/Geo-302 Geomorphology			✓		
Maj/Geo-303 Economic geography				✓	
Maj/Geo-304 Surveying				✓	
Maj/Geo-305 Oceanography				✓	

Maj/Geo-306 Climatology & Meteorology					✓
Maj/Geo-307 Environmental Geography					✓

Courses	Program Outcomes				
	1	2	3	4	5
Maj/Geo-308 Quantitative Geography				✓	
Maj/Geo-309 Population geography					✓
Maj/Geo-310 Region and Regional concepts					✓
Maj/Geo-401 Fundamentals of GIS				✓	
Maj/Geo-402 Settlement Geography				✓	
Maj/Geo-403 Research Methods				✓	
Maj/Geo-407 Climate change studies				✓	
Maj/Geo-416 Natural hazard management				✓	
Maj/Geo-404 Principles of Remote Sensing					✓
Maj/Geo-420 South asia				✓	
Maj/Geo-425 DIP					✓
Maj/Geo-405 Research Project/Internship					✓

Table 12: Program versus Objectives

Courses	Program Objectives				
	1	2	3	4	5
Maj/Geo-101 Fundamentals of Geography				✓	
Maj/Geo-102 Physical Geography					✓
Maj/Geo-201 Human Geography				✓	
Maj/Geo-202 Map Work				✓	
Maj/Geo-203 Geography of Pakistan					✓
Maj/Geo-204 Principles of Cartography				✓	
Maj/Geo-301 History & Development of Geographic Thought				✓	
Maj/Geo-302 Geomorphology					✓
Maj/Geo-303 Economic geography				✓	

Maj/Geo-304 Surveying				✓	
Maj/Geo-305 Oceanography					✓
Maj/Geo-306 Climatology & Meteorology				✓	
Maj/Geo-307 Environmental Geography				✓	
Maj/Geo-308 Quantitative Geography					✓
Maj/Geo-309 Population geography				✓	
Maj/Geo-310 Region and Regional concepts				✓	
Maj/Geo-401 Fundamentals of GIS					✓
Maj/Geo-402 Settlement Geography				✓	
Maj/Geo-403 Research Methods					✓
Maj/Geo-407 Climate change studies				✓	
Maj/Geo-416 Natural hazard management					✓
Maj/Geo-404 Principles of Remote Sensing				✓	
Maj/Geo-420 South asia				✓	

Maj/Geo-425 DIP					✓
Maj/Geo-405 Research Project/Internship				✓	

Standard 2.2: Theoretical background, problems analysis and solution design must be stressed within the program's core material.

Program: BS

Table 13: Elements of Courses

Elements	Courses	No of Courses
Theoretical background	Maj/Geo-101: fundamental of geography Maj/Geo-102: Physical Geography Maj/Geo-201: Human Geography Maj/Geo-203: Geography of Pakistan Maj/Geo-301: History & Development of Geographic Thought Maj/Geo-305: Oceanography Maj/Geo-306: Climatology & Meteorology Maj/Geo-307: Environmental Geography Maj/Geo-309 : Population geography Maj/Geo-402: Settlement Geography Maj/Geo-420: South asia	11
Problem solving	Maj/Geo-204: Principles of Cartography Maj/Geo-302 :Geomorphology Maj/Geo-303: Economic geography Maj/Geo-403: Research Methods	3
Solution design	Maj/Geo-202: Map Work Maj/Geo-304: Surveying Maj/Geo-308: Quantitative Geography Maj/Geo-310 :Region and Regional concepts Maj/Geo-407: Climate change studies Maj/Geo-416: Natural hazard management	6

Application of Theoretical Knowledge	Maj/Geo-401: Fundamentals of GIS Maj/Geo-404: Principles of Remote Sensing Maj/Geo-425: DIP Maj/Geo-405: Research Project/Internship	4
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Standard 2.3: The curriculum must satisfy the core requirements for the program, as specified by the respective accreditation body.

Standard Achieved.

Standard 2.4: The curriculum must satisfy the major requirements for the program as specified by the respective accreditation body.

Standard Achieved

Standard 2.5: The curriculum must satisfy general education, arts, and professional and other discipline requirements for the program, as specified by the respective accreditation body/council.

Standard Achieved

Standard 2.6: Information technology component of the curriculum must be integrated throughout the program.

Standard partially achieved, since department has one GIS Lab consisting of 10 computers, thus intense use of information technology for great strength in BS program, is not currently possible.

Standard 2.7: Oral and written communication skills of the student must be developed and applied in the program.

Standard achieved.

CRITERION 3: LABORATORIES AND COMPUTING FACILITIES

Standard 3.1: Manuals/documentation/instructions for experiments must be available and readily accessible to faculty and students.

Standard Achieved

Standard 3.2: There must be adequate support personnel for instruction and maintaining the laboratories:

Standard partially achieved because department doesn't have a permanent GIS analyst/ Lab Incharge, and Lab assistant.

Standard 3.3: The university computing infrastructure and facilities must be adequate to support program's objectives:

Not achieved. Strength of BS program in 2016 is 238. Department has only two classrooms and one GIS Lab. This infrastructure is highly insufficient for this number of students.

CRITERION 4: STUDENT SUPPORT AND ADVISING

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

Standard achieved.

Standard 4.2: Courses in the major area of study must be structured to ensure effective interaction between students, faculty and teaching assistants:

Standard Achieved

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 career choices:

Standard Achieved.

CRITERION 5: PROCESS CONTROL

Standard 5.1: The process by which students are admitted to the program must be based on quantitative and qualitative criteria and clearly documented. This process must be periodically evaluated to ensure that it is meeting its objectives:

Admission: BS Hons Geography [4 Year Degree Program]

This is a 4 year degree program with minimum 133 credit hours. The program is divided in 8 semesters with 2 semesters each year.

Eligibility Criteria

Female students, who have passed Intermediate / A-level with 60 percent marks, are eligible to apply.

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. This process must be periodically evaluated to ensure that it is meeting its objectives:

- Those students who fulfill all the admission requirements are registered in the program.
- Student's academic progress is monitored by test, assignments, quizzes, presentations, mid and final semester examinations.
- Evaluation is done at the end of each semester.
- The progress reports as received by the Exam branch are properly maintained session-wise, in the department and shared on regular basis with the students.

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, promotion must be consistent with institution mission statement. These processes must be periodically evaluated to ensure that it is meeting its objectives:

- Permanent faculty is hired according to departmental requirement whose recruitment is done by board constructed by university.
- An annual confidential report (ACR) is initiated by HOD annually for each staff member.
- All the faculty members have good assessment quality as well as research and communication skills, so the students get benefit from them and are able to make successful careers.
- The processes and procedures for faculty evaluation, promotion are consistent with institution mission statement.

Standard 5.4: The process and procedures used to ensure that teaching and delivery of course material to the students emphasizes active learning and that course learning outcomes are met. The process must be periodically evaluated to ensure that it is meeting its objectives:

- The process and procedures adopted by the faculty of the department ensures that the course material is taught to the students in a way to promote active learning. It is also ensured that the course learning outcomes are met.
- Research skills of the students are enhanced by thesis, internship reports/survey reports, which are evaluated by the external examiners.
- The entire faculty follows HEC syllabus manual which is revised periodically.
- Evaluation is done twice in each semester, in midterm and final semester examination.

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.

- Students are required to achieve GPA 2.0 in each semester. If there GPA is below 2.0 but passing in all papers are promoted with the condition to achieve more than 2.0 GPA in the next semester and marked as **low passed**. These students are given chance to improve 6 courses in 4 years of BS honors.
- The student acquiring GPA less than 1.7 and failing in any paper(s) will be dropped from university rolls after getting two chances in summer re-sit.
- Examination is conducted twice a semester i.e., mid and final terms.

CRITERION 6: FACULTY

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 interests and qualifications of all faculty members must be sufficient to teach all courses, plan, modify and update courses and curricula. All faculty members must have a level of competence that would normally be obtained through graduate work in the discipline. The majority of the faculty must hold a Ph.D. in the discipline:

Standard partially achieved, and the details of the current faculty, is presented in the following table:

Program areas	Number of faculty members with MS	Number of faculty with Ph.D. degree
BS Geography	5 permanent + 1 visiting	N.A.

Table 3: Faculty Distribution by Program Areas

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 of Department is overburdened by administrative task, still the faculty is producing quality research.

Standard 6.3: All faculty members should be motivated and have job satisfaction to excel in their profession:

Faculty of Department is overburdened by administrative task for example purchasing, stock management, file management, memo writing, invigilation, admission duties etc but still the faculty is trying to produce high quality graduates.

CRITERION 7: INSTITUTIONAL FACILITIES

Standard 7.1:The institution must have the infrastructure to support new trends in learning such as e-learning

Geography department has only two class rooms with capacity of 25 students. Class rooms are not equipped. Class rooms are highly congested even students can't be seated well. Therefore, such technologies cannot be implemented. However, department is struggling to teach with advanced ways of teaching.

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:

N.A.

Standard 7.3:Class-rooms must be adequately equipped and offices must be adequate to enable faculty to carry out their responsibilities:

We have only two classrooms with capacity of 25 students. Class rooms are not equipped. Class rooms are highly congested even students can't be seated well.

CRITERION 8: INSTITUTIONAL SUPPORT

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:

There are no sufficient financial resources.

Standard 8.2: There must be an adequate number of high quality graduate students, research assistants and Ph.D. students:

There is no research assistant and PhD student in department yet as Geography department started BS program recently in 2011.

Standard 8.3: Financial resources must be provided to acquire and maintain Library holdings, laboratories and computing facilities:

Financial resources are not sufficient.

APPENDICES