# SELF ASSESSMENT REPORT (SAR) 

## 2021-2022



Department of Statistics<br>Shah Abdul Latif University Khairpur

Program:

1) BS- 4 Year
2) $\mathrm{MS} / \mathrm{MPhil}$

Submitted to:
Quality Enhancement Cell (QEC)
Shah Abdul Latif University Khairpur

Submitted By
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Chairman
Department of Statistics

## INTRODUCTION

The Department of Statistics is one of the pioneering departments of the university and working continuously since 1976. From beginning to date, this department produced best quality education in various areas in the field of Statistics. This department offering advanced courses in BS (Four Year) program as well as MS/MPhil programs. Most recently, department introduce some new courses on the realization of fact that this area of study has an important role in other areas of study like data sciences, Bio Sciences, social and physical sciences.

Field of Statistics is a speedily growing discipline with variety of real world problem based applications including other scientific, management and engineering fields. In particular, modern computer technology facilitates the development of high-quality and computer intensive statistical procedures and makes it possible to apply them to diverse statistical problems in the teal world.

## Criterion 1: Program Mission, Objective and Outcomes.

Standards 1.1: The program must have recognized quantifiable Goals which support Faculty / Institution Mission Statements.

## Criterion 1: Program Mission, Objective and Outcomes.

## Mission Statement of the University:

Slogan: "Learn how to learn"

## Mission of the University:

$\checkmark \quad$ To build national character and put focus on production of quality graduates to contribute in the economic, industrial and social development of the country.

## $\checkmark \quad$ Vision of the University:

To develop human resources \& capabilities to meet national development needs through quality teaching, learning \& research. "Youth Empowerment" is one of the main objectives of the University.

## Vision of the Department:

- To strengthen national and international reputation in collaborative scientific activity without compromising our core strength of excellence in statistical theory and methods.


## Mission of the Department:

- Through quality based teaching and research the people of this area will be exposed to the latest trends and developments in applied statistical science.


## Program Objectives:

1. To produce graduates who can solve problems by statistically.
2. To build up the graduates with a sense of dedication, motivation and hard work.
3. To guide students for independent and self-motivated in the field of research.

| Program Objectives | Program Outcomes |  |  |
| :--- | :--- | :--- | :--- |
|  | 1. | 2. |  |

## Table 1. Shows Program Objectives and Program Outcomes

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.

## Program Objectives Assessment.

| Objectives | How Measured | When Measured | Improvement <br> Identified |
| :--- | ---: | :--- | :--- | :---: |
| To produce <br> graduates <br> solve$\quad$Most of the students are <br> who <br> employed in <br> problems | At the end of every <br> academic year. | - |  |


| statistically. | and other related <br> institutions. |  |  |
| :--- | :--- | :--- | :--- |
| To produce <br> graduates who can <br> solve problems by <br> statistically. | Highest number of the <br> graduates of the <br> department qualifies <br> competitive exams for <br> various posts especially <br> in education. <br> - | After each selection <br> board conducted by <br> various provincial, <br> national \& private <br> sectors. | - |
| To Guide students for <br> independent and self- <br> motivated in the field of <br> research. | Through assessing <br> students during research <br> oriented entry tests, <br> interviews, and <br> preparation of synopsis. | At the end of year |  |

Table: 2. This Table shows how program outcomes support the Program Outcomes.
Note: Improvement Made: This will be informed after AT visits.
Standard 1-3. The result of program's assessment and the extent to which they are used to improve the program must be documented.

## Program Strengths and weaknesses.

| Program | Strengths | Weaknesses | Things to be <br> developed | Activities taken <br> for <br> improvements |
| :---: | :---: | :---: | :---: | :---: |
| BS.I-BS.IV <br> MS/MPhil | Good teaching <br> and research <br> environment. | Insufficient/outdated/out of <br> order computers. | 1. Relevant books <br> \& Journal <br> 2. Multimedia <br> facility <br> 3. Laboratory |  |

Table: 3. Shows Program Strengths \& Weakness.

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

| Program | Year <br> $\mathbf{2 0 2 0}$ | Students/ <br> Faculty Ratio | Year <br> $\mathbf{2 0 2 1}$ | Students/ <br> Faculty Ratio | Year <br> $\mathbf{2 0 2 2}$ | Students/ <br> Faculty Ratio |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| BS 4Yr | 136 | 27.2 | 114 | 28.5 | 84 | 28 |
| M.Sc. | $\cdots$ |  | $\cdots$ |  | $\cdots$ |  |
| MS/MPhil | 07 |  | $\cdots$ | $\cdots$ | $\cdots$ |  |
| Ph.D | 03 |  | $\cdots$ | $\cdots$ | $\cdots$ |  |

Table: 4. Number of student enrolment during last three years and student faculty ratio:

## Major Future Improvement Plans:

(e) To impart quality education in the department using audio visual aids and modern tools along with provision of latest literature, journals, books, reviews and access to internet.
(- To establish Graduate Computer Laboratories.
To emphasize problem oriented research work on modern technological implications.

| Publications (HEC recognized only) |  | Research Projects |  | Monograph | Awards | Scholars produced |  | Organized National \& International Conferences |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| National | International | Completed | Ongoing |  |  | M.Phil | Ph.D. |  |
| 01 | 07 | 02 | None | None | None | 02 | - | None |

Table: 5. Overall Progress of the Department from 2020 to 2022
Criterion 2: The curriculum must be designed and organized to achieve the program's objectives and outcomes. Also course objectives must be in line with the program outcomes.
Standards: The curriculum must be consistent and support the program's documented objectives.

| Semester | Course <br> Number <br> STAT <br> Theory/ <br> Practical | Category (Credit Hours)1 Credit $\mathrm{hr}=1$ Class hour \& 2-3 Laboratory Hours per weekRatio 2:1 (Theory: Practical) Total CrHs $\mathbf{1 8} * \mathbf{8}=\mathbf{1 4 4}$ |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Introductory | Core Course | Humanities and Social Sciences | Technical |
|  |  | Basic Science. |  |  |  |
| $1{ }^{\text {st }}$ | 103 |  |  | English |  |
|  | 105 |  |  | Pak Studies |  |
|  | 106 | Calculus-I |  |  |  |
|  | 108 | Geography |  |  |  |
|  | 109 |  |  | B.F.M |  |
|  | 101 |  | Statistics |  |  |
| $2^{\text {nd }}$ | 104 |  |  | English |  |
|  | 105 |  |  | ISS |  |
|  | 107 | Calculus-II |  |  |  |
|  | 109 | Geography |  |  |  |
|  | 108 |  |  | HRM |  |
|  | 102 |  | Prob: Distr: |  |  |
| 3rd | 203 |  |  | English |  |
|  | 204 | I. Computer |  |  |  |



X Relevant \& satisfactory to some extent
XX Relevant \& satisfactory
XXX Very relevant \& satisfactory
XXXX Highly relevant \& highly satisfactory

Duration of BS Degree: 4 Years; 8 Semesters BACHELOR OF SCIENCE IN Statistics
Curriculum Course Requirement: BS PART-I
Scheme of studies:

| Course \# | Title | Credit Hours |
| :--- | :--- | :--- |
| SEMESTER-I | Introductory Statistics | 3 Credit Hours |
| STAT-101 | English-1 | 3 Credit Hours |
| ENGL-103 | Pakistan studies | 2 Credit Hours |
| PKST-105 | Calculus -I | 3 Credit Hours |
| MATH-106 | Basic Finance Management | 3 Credit Hours |
| GEO-108 | Introduction to Genetics | 3 Credit Hours |
| ECO-109 | English-II | 3 Credit Hours |
| SEMESTER-II | Islamic -Studies/ Ethics | 2 Credit Hours |
| ENG-104 | Calculus- II | 3 Credit Hours |
| ISS-105 | Geography | 3 Credit Hours |
| MATH-107 | Human Resource Management | 3 Credit Hours |
| FNM-109 | Introduction to Probability Distributions | 4 Credit Hours |
| HRM-108 |  | $\mathbf{1 8}$ Credit Hours |
| STAT-102 |  |  |

## Curriculum Course Requirement: BS PART-II

| SEMESTER-III |  |  |
| :--- | :--- | ---: |
| ENG-203 | English -III | 3 Credit Hours |
| COMP-204 | Introduction to Computer | 3 Credit Hours |
| MATH-206 | Advanced Calculus | 3 Credit Hours |
| ENV-205 | Functional Maths | 3 Credit Hours |
| STAT-201 | Basic Statistical Inference | 4 Credit Hours |


| SEMESTER-VI |  |  |
| :--- | :--- | ---: |
| SEMESTER-IV |  |  |
| MGT-208 | Principles of Management \& Marketing | 3 Credit Hours |
| ENG-204 | Communication Skill | 3 Credit Hours |
| STAT-202 | Introduction to Regression Analysis | 4 Credit Hours |
| Math-207 | Linear Algebra | 4 Credit Hours |
| STAT-203 | Applied Statistics | 3 Credit Hours |
|  |  | Total |
|  |  | $\mathbf{1 7}$ Credit Hours |
|  |  |  |


| SEMESTER-V |  |  |
| :---: | :---: | :---: |
| STAT-301 | Probability Distribution -I | 3 Credit Hours |
| STAT-303 | Sampling Technique -I | 4 Credit Hours |
| STAT-305 | Design \& Analysis of Experiment -I | 4 Credit Hours |
| STAT-307 | Regression Analysis -I | 4 Credit Hours |
| STAT-313 | Statistical Packages | 4 Credit Hours |
|  |  |  |
|  | Total | 19 Credit Hours |
| SEMESTER-VI |  |  |
| STAT-310 | Official Statistics | 3 Credit Hours |
| STAT-306 | Design \& Analysis of Experiment -II | 4 Credit Hours |
| STAT-304 | Sampling Technique -I | 4 Credit Hours |
| STAT-302 | Probability Distribution -I | 3 Credit Hours |
| STAT-308 | Econometrics | 4 Credit Hours |
|  | Total | 18 Credit Hours |


| SEMESTER-VII |  |  |
| :--- | :--- | ---: |
| STAT-401 | Statistical Inference-I | 3 Credit Hours |
| STAT-403 | Applied Multivariate Analysis | 4 Credit Hours |
| STAT-405 | Research Methedology | 3 Credit Hours |
| STAT-414 | Operations Research | 3 Credit Hours |
| STAT-423 | Time Series Analysis | 3 Credit Hours |
|  |  | 16 Credit Hours |
|  |  |  |
| SEMESTER-VIII |  |  |
| STAT-402 | Statistical Inference -II | 3 Credit Hours |
| STAT-404 | Population Studies | 4 Credit Hours |
| STAT-424 | Research Project/ Internship | 3 Credit Hours |
| STAT-418 | Mathematics Modeling \& Simulation | 3 Credit Hours |
| STAT-419 | Categorical Data Analysis | 3 Credit Hours |
|  |  | Th Credit Hours |
|  |  | Grand Total |
|  | 133 Credit Hours |  |

## Criterion 3: LABORATORIES AND COMPUTING FACILITIES

Standards: 1-3. Laboratories and computing facilities must be adequately available and accessible to faculty members and students to support teaching and research activities.

Laboratory Facilities/Provision: No well-equipped at the present.

## Standard: 1.

Laboratory manuals/ documentation instruction for experiments must be available and readily accessible to faculty and students.
$\checkmark$ (1) None
(2) Available for students
(3) Available for Faculty
Both

## Standard: 2.

There must be adequate support personnel for instruction and maintaining the program. $\sqrt{ }$ No
Standard: 3 The University computing infrastructure and facilities must be adequate to support program's objectives Computing Facilities.

NO computing facility in the department for the students.

Criterion 4: STUDENT SUPPORT AND ADVISING: Students must have adequate support to complete the program in a timely manner and must have ample opportunity to interact with their instructors and receive timely advice about program requirements and career alternatives.

Standard: 4:1. Courses must be offered with sufficient frequency and number for students to complete the program in timely manner.
$\checkmark$ Completely offered
Standard: 4:2. Courses in the major are structured in such a way that ensures effective interaction between students and faculty?
(1) Well-structured $\sqrt{ }$

Standard: 4:3. Guidance in the major area of study must be structured to ensure effective interaction between students, faculty and teaching assistants.

Are students informed about program requirements?
(1) No
(2) To some extent
(3) $\sqrt{ }$ Fully

## Does there student advising system exist and how effective it is?

(1) No
(2) $\sqrt{ }$ To some extent
(3) completely

Have students access to professional counseling?
(1) $\sqrt{ } \mathrm{No}$
(2) To some extent
(3) Full

Criterion 5: The process by which major functions are delivered must be in place, controlled, periodically reviewed, evaluated and continuously improved.

Standard 5:1. The process by which students are admitted to the program must be based on quantitative and qualitative criteria and Cleary documented.

Program/credit transfer: Yes
Transfer of a student from outside the university: Yes
Admission Criteria: The admission policy is constituted by the "Admission Committee" consists of Deans, and senior faculty members of the university. The departments have no any role. The departments follow policy made by them which is also mentioned in "Prospectus of the university". However, the admission criteria are evaluated but not regularly.

Standard 5:2. The process by which students are registered in the program and monitoring of student's progress to ensure timely completion of the program:

How frequently admission criteria are evaluated?
(1) None
(2) Not regularly $\sqrt{ }$
(3) Every Year

Are the evaluated results used to improve the results?
(1) No
2) To some extent
(3) Yes $\sqrt{ }$

Is there any policy regarding program/credit transfer?
(1) No
(2) To some extent
(3) Well defined $\sqrt{ }$

Is there any mechanism of student's registration in the program?
(1) No
(2) To some extent
(3) Well defined $\sqrt{ }$

How frequently process of registration is monitored?
(1) None
2) within 1 year (3) After 1 year (4) When needed $\sqrt{ }$

Are the evaluation results used to improve the results?
(1) No
2) To some extent
(3) Yes $\sqrt{ }$

Standard 5:3. The process of recruiting and retaining highly qualified faulty members. The process of faculty evaluation, promotion must be consistent with institution mission statement.
(l) Shah Abdul Latif University strictly follows the policy of "Equal Opportunity" regardless religion, race, faith, cast \& creed, gender regarding recruiting faculty including admissions, educational programs and employment.

The University applies standard operating methodology for evaluation, such as Annual Confidential Report (ACR), required research papers, teaching experience and all other conditions as directed by the HEC. Thus
(T) This process ensures the objectives of the program mission.

Standard 5:4: The process and procedure 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.

T It is strictly observed that the time table is followed by the faculty. However, Weaknesses \& Strengths have been observed through the student feedback for the "Course Evaluation". The department needs to improve in various aspects.

Standard 5:5: The process that ensures that graduates have completed the requirements of the program must e based on standards, effective and clearly documented procedure.

The process for the degrees of M.Phil/Ph.D. has been well designed by the Board of Advanced Studies \& Research (BASR) followed by the HEC directions. Details are as under.

| Degree | GPA/Class/GRE | Interview |  |
| :--- | :--- | :---: | :---: |
| BS-4 Year/M.Sc. | Pre-Admission Test <br> (NTS) style | X |  |

This process must be periodically evaluated to ensure that it is meeting its objectives. $\sqrt{ }$ (Yes)

The department ensures that the graduates actively participate in laboratory work, punctual in the classes, maintaining attendance over $75 \%$.

Criterion: 6. Faculty. Faculty members must be current and active in their discipline and have the necessary technical depth and breadth to support the program. There must be enough faculty members to provide continuity and stability, to cover the curriculum adequately and effectively. To meet this criterion the following standards must be satisfied.

## Faculty Resume:

Note: Faculty resumes are well documented as per policy/criteria of HEC. Names of the faculty members and field of specialization are as under.

| Name: | Position | Qualification | Field of specialization |
| :--- | :--- | :--- | :--- |
| Prof. Dr. Syed Maqsood <br> Zia | Professor | Ph.D. | -Applied Statistics <br> -Bio statistics epidemiology <br> -environmental Management |
| Prof. Dr. Syed Baqer Shah | Professor | Ph.D. | -Modeling \& Simulation <br> -Applied Mathematics <br> -Computational Fluid Dynamics |
| Mr. Imtiaz Ahmed Memon | Assistant <br> Professor | M.Sc. (Hons <br> Side) | Probability theory \& probability <br> distribution |
| Mr. Lal Bux <br> Muhammadani | Assistant <br> Professor | M.Phil \& Ph.D. <br> (Scholar) | Demography \& Environments |
| Mr. Ameer Ahmed Pathan | Assistant <br> Professor | M.Phil | Population in Demography |

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.

Is there sufficient time for faculty members for scholarly activities and professional development?
(a)
(b)
To some extent
(c) Full $\sqrt{ }$

## Faculty Development Program: Yes

Standard 6:3. All faculty members should be motivated and have job satisfaction to excel in their profession.

The following criteria are under practice in order to satisfy the faculty members in their profession.
I. Fair, timely selection, appointment / promotion as per HEC policy.
II. Providing Tenure Track salary package
III. Excellent working environment.

Criterion: 7. Institutional Facilities. Institutional facilities, including library, clean rooms and offices must be adequate to support the objectives of the program. To satisfy this criterion, the following standards must be met.

Standard 7:1. The Institution must have the infrastructure to support new trends in learning such as Elearning.
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.

Standard 7:3. Class rooms must be adequately equipped and offices must be adequate to enable faculty to carry out their responsibility. Not as required

Criterion: 8. Institutional Support. The institution's support and the financial resources for the program must be sufficient to provide an environment in which the program can achieve its objectives and retain its strength.

## Does the department provide opportunities to the faculty members to attend international / national conferences?

(1) No
(2) To some extent
(3) Full $\sqrt{ }$

## Teacher Evaluation Form

(To be filled by the student)

| DEPARTMENT: Statistics |  |  | Year of Study: 20-22 |
| :--- | :--- | :--- | :--- | :--- |
| A: Strongly Agree B: Agree C: Uncertain D: Disagree | E: Strongly Disagree |  |  |


| Teacher: |  | A | B | C | D | E |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1. | The teacher is prepared for each class | 36\% | 43\% | 4\% | 7\% | 11\% |
| 2. | The teacher demonstrates knowledge of the subject properly | 36\% | 39\% | 4\% | 18\% | 4\% |
| 3. | The teacher has completed the whole course | 36\% | 29\% | 14\% | 18\% | 4\% |
| 4. | The teacher provides additional material apart from the textbook | 14\% | 50\% | 11\% | 25\% | 0\% |
| 5. | The teacher gives citations regarding current situations with reference to Pakistani context. | 11\% | 46\% | 11\% | 29\% | 4\% |
| 6. | The teacher communicates the subject matter effectively | 18\% | 50\% | 21\% | 11\% | 0\% |
| 7. | The teacher shows respect towards students and encourages class participation | 36\% | 43\% | 11\% | 11\% | 0\% |
| 8. | The teacher maintains an environment that is conducive to learning | 21\% | 64\% | 11\% | 4\% | 0\% |
| 9. | The teacher is punctual \& regular. | 43\% | 29\% | 4\% | 25\% | 0\% |
| 10. | The teacher is fair in examination | 18\% | 57\% | 14\% | 4\% | 7\% |
| 11. | The teacher returns the checked scripts etc. with his suggestions to the students. | 7\% | 54\% | 25\% | 7\% | 7\% |
| 12. | The teacher was available for consultations after class hours. | 14\% | 50\% | 7\% | 25\% | 4\% |
| Course: |  |  |  |  |  |  |
| 13. | The matter presented in the course has increased the knowledge of the subject | 18\% | 50\% | 14\% | 18\% | 0\% |
| 14. | The syllabus clearly states course objectives requirements, procedures and grading criteria | 25\% | 39\% | 21\% | 11\% | 4\% |
| 15. | The subject integrates theoretical course concepts with real world. | 11\% | 61\% | 7\% | 21\% | 0\% |
| 16. | The assignments and exams taken by the teacher were according to course and syllabi. | 36\% | 43\% | 11\% | 0\% | 11\% |

## Survey of Graduating Students

## DEPARTMENT: Statistics

A: Very satisfied
B: Satisfied
C: Uncertain
D: Dissatisfied E: Very dissatisfied

| S \# | Question |  |  | Percentage/Status |  |  |  |
| :---: | :--- | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | A | B | $\mathbf{C}$ | D | E |  |
| 1. | The work in the program is too heavy and induces a lot <br> of pressure. | $11 \%$ | $50 \%$ | $33 \%$ | $6 \%$ | $0 \%$ |  |
| 2. | The program is effective in enhancing team-working <br> abilities. | $11 \%$ | $61 \%$ | $22 \%$ | $6 \%$ | $0 \%$ |  |
| 3. | The program is effective in developing analytical and <br> problem solving skills. | $22 \%$ | $39 \%$ | $28 \%$ | $11 \%$ | $0 \%$ |  |
| 4. | The program is effective in developing written <br> communication skills. | $17 \%$ | $61 \%$ | $17 \%$ | $6 \%$ | $0 \%$ |  |
| 5. | The program is effective in developing planning abilities. | $22 \%$ | $61 \%$ | $17 \%$ | $0 \%$ | $0 \%$ |  |
| 6. | The objectives of the program have been fully achieved | $6 \%$ | $44 \%$ | $33 \%$ | $11 \%$ | $6 \%$ |  |
| 7. | Faculty was able to meet the program objectives | $11 \%$ | $50 \%$ | $11 \%$ | $17 \%$ | $11 \%$ |  |
| 8. | Environment was conducive for learning | $22 \%$ | $44 \%$ | $22 \%$ | $6 \%$ | $6 \%$ |  |
| 9. | Whether the Infrastructure of the department was good. | $17 \%$ | $50 \%$ | $17 \%$ | $17 \%$ | $0 \%$ |  |
| 10. | Whether the program was comprised of Co-curricular <br> and extra-curricular activities | $17 \%$ | $28 \%$ | $33 \%$ | $17 \%$ | $6 \%$ |  |
| 11. | Whether scholarships/ grants were available to students <br> in case of hardship | $6 \%$ | $50 \%$ | $6 \%$ | $22 \%$ | $17 \%$ |  |

## Answer question, if applicable.

The internship experience is effective in enhancing.

| S \# | Question | Percentage/Status |  |  |  |  |
| :---: | :--- | :---: | :---: | :---: | :---: | :---: |
|  |  | $\mathbf{A}$ | $\mathbf{B}$ | $\mathbf{C}$ | $\mathbf{D}$ | $\mathbf{E}$ |
| A. | Ability to work in teams. | $11 \%$ | $67 \%$ | $17 \%$ | $6 \%$ | $0 \%$ |
| B. | Independent thinking. | $17 \%$ | $56 \%$ | $22 \%$ | $0 \%$ | $6 \%$ |
| C. | Appreciation of ethical Values. | $11 \%$ | $78 \%$ | $6 \%$ | $6 \%$ | $0 \%$ |
| D. | Professional development. | $17 \%$ | $56 \%$ | $17 \%$ | $6 \%$ | $6 \%$ |
| E. | Time management skills. | $22 \%$ | $44 \%$ | $33 \%$ | $0 \%$ | $0 \%$ |
| F. | Judgment. | $6 \%$ | $22 \%$ | $50 \%$ | $17 \%$ | $6 \%$ |
| G. | Discipline. | $22 \%$ | $56 \%$ | $22 \%$ | $0 \%$ | $0 \%$ |
| H. | The link between theory and practice. | $22 \%$ | $50 \%$ | $17 \%$ | $11 \%$ | $0 \%$ |

## Student Course Evaluation Questionnaire

(To be filled by each student at the time of Course Completion)

## DEPARTMENT: STATISTICS Year of Study: 2020-22

## CORE QUESTIONS

| S \# | Course Content and Organization | Strongly <br> Agree | Agree | Uncertain | Disagree | Strongly Disagree |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1. | The course objectives were clear. | 21\% | 57\% | 14\% | 7\% | 0\% |
| 2. | The Course workload was manageable. | 14\% | 64\% | 14\% | 7\% | 0\% |
| 3. | The Course was well organized (e.g. timely access to materials, notification of changes, etc.) | 29\% | 57\% | 7\% | 7\% | 0\% |
| Student Contribution |  | 81\% | 80\% | 60\% | 40\% | 20\% |
| 4. | Approximate level of your own attendance during the whole Course. | 0\% | 50\% | 29\% | 14\% | 7\% |
| 5. | I participated actively in the Course. | 0\% | 50\% | 50\% | 0\% | 0\% |
| 6. | I think I have made progress in this Course. | 0\% | 50\% | 29\% | 14\% | 7\% |
| Learning Environment and Teaching Methods |  | Strongly Agree | Agree | Uncertain | Disagree | Strongly Disagree |
| 7. | I think the Course was well structured to achieve the learning outcomes. | 14\% | 71\% | 14\% | 0\% | 0\% |
| 8. | The learning and teaching methods encouraged participation. | 21\% | 57\% | 14\% | 7\% | 0\% |
| 9. | The overall environment in the class was academic \& friendly. | 29\% | 64\% | 7\% | 0\% | 0\% |
| 10. | Classrooms environment were satisfactory. | 29\% | 29\% | 29\% | 14\% | 0\% |
| Learning Resources |  | Strongly Agree | Agree | Uncertain | Disagree | Strongly Disagree |
| 11. | Learn materials provided by teacher were relevant and useful. | 14\% | 57\% | 7\% | 14\% | 7\% |
| 12. | Recommended reading Books etc. were relevant and appropriate | 14\% | 57\% | 14\% | 14\% | 0\% |
| 13. | The provision of learning resources in the library was adequate and appropriate. | 14\% | 57\% | 14\% | 7\% | 7\% |
| 14. | The provision of learning resources on the Web was adequate and appropriate (if relevant) | 7\% | 50\% | 21\% | 14\% | 7\% |
| Quality of Delivery |  | Strongly Agree | Agree | Uncertain | Disagree | Strongly Disagree |
| 15. | The Course stimulated my interest and thought on the subject area Teaching techniques of the teacher were interesting and conducive. | 14\% | 71\% | 7\% | 7\% | 0\% |
| 16. | The pace of the Course was appropriate | 14\% | 43\% | 36\% | 7\% | 0\% |
| 17. | Ideas and concepts were presented by the teacher were clear. | 29\% | 64\% | 7\% | 0\% | 0\% |
| Assessment |  | Strongly <br> Agree | Agree | Uncertain | Disagree | Strongly Disagree |
| 18. | The methods of assessment were reasonable. | 14\% | 79\% | 7\% | 0\% | 0\% |
| 19. | Feedback on assessment was timely. | 7\% | 64\% | 29\% | 0\% | 0\% |
| 20. | Feedback on assessment was helpful. | 21\% | 29\% | 29\% | 21\% | 0\% |
| Additional Core Questions Instructor / Teaching Assistant Evaluation |  | Strongly Agree | Agree | Uncertain | Disagree | Strongly <br> Disagree |
| 21. | I understood the lectures. | 29\% | 57\% | 14\% | 0\% | 0\% |
| 22. | The material was well organized and presented. | 14\% | 79\% | 7\% | 0\% | 0\% |


| 23. | The teacher was responsive to student needs and <br> problems. | $29 \%$ | $64 \%$ | $7 \%$ | $0 \%$ | $0 \%$ |
| :---: | :--- | :---: | :---: | :---: | :---: | :---: |
| 24. | Had the teacher been regular throughout the <br> course? | $14 \%$ | $64 \%$ | $14 \%$ | $7 \%$ | $0 \%$ |
| Practical | Strongly <br> Agree | Agree | Uncertain | Disagree | Strongly <br> Disagree |  |
| 25. | The material in the practical's was useful. | $29 \%$ | $43 \%$ | $21 \%$ | $7 \%$ | $0 \%$ |
| 26. | The demonstrators dealt effectively with my <br> problems. | $21 \%$ | $43 \%$ | $21 \%$ | $14 \%$ | $0 \%$ |



Prof. Dr. Syed Baqer Shah
Chairman
Department of Statistics
Date- 29-03-2022

