**Kingdom of Saudi Arabia**

**The National Commission for Academic Accreditation & Assessment**

**T5. COURSE REPORT**

**(CR)**

A separate Course Report (CR) should be submitted for every course and for each section or campus location where the course is taught, even if the course is taught by the same person. Each CR is to be completed by the course instructor at the end of each course and given to the program coordinator

A combined, comprehensive CR should be prepared by the course coordinator and the separate location reports are to be attached.

**Course Report**

For guidance on the completion of this template refer to the NCAAA handbooks.

|  |
| --- |
| Institution: Umm Al-Qura University Date of CR: 1437/1438 |
| College/ Department: Applied Science / Mathematical Science |

A Course Identification and General Information

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| 1. Course title Elements of Statistics and Probability Code # 4042301-3  Section # Male/Alabdia | | | | | | |
| 2. Name of course instructor Mohamed Ghoneim Location Alabdia | | | | | | |
| 3. Year and semester to which this report applies. second level | | | | | | |
| 4. Number of students starting the course? Students completing the course? | | | | | | |
| 5. Course components (actual total contact hours and credits per semester): | | | | | | |
|  | Lecture | Tutorial | Laboratory/  Studio | Practical | Other: | Total |
| Contact  Hours | 42 |  |  |  |  | 42 |
| Credit | 3 |  |  |  |  | 3 |

B- Course Delivery

|  |  |  |  |
| --- | --- | --- | --- |
| 1. Coverage of Planned Program | | | |
| Topics Covered | Planned Contact Hours | Actual Contact Hours | Reason for Variations if there is a difference of more than 25% of the hours planned |
| Definition and general view of statistics | 3 |  |  |
| Organization and presentation of statistical data | 3 |  |  |
| Measures of central tendency (Mean, Median, Mode) of the simple data and the frequency distribution | 6 |  |  |
| Measures of dispersion (The Range – The Variance and the standard deviation - Coefficient of variation) of the simple data and the frequency distribution | 6 |  |  |
| Moments and Measure of Skewness and Kurtosis | 3 |  |  |
| Correlation measures | 3 |  |  |
| Simple Linear regression | 3 |  |  |
| Sample space and Events  Counting Techniques (Fundamental basics, Addition Rule – Multi-plication Rule- Permutation and Combinations) | 6 |  |  |
| Definition of the probability and its applications | 6 |  |  |
| Conditional probability - Independence of events and Bayes theorem and its applications | 6 |  |  |

|  |  |  |
| --- | --- | --- |
| 2. Consequences of Non Coverage of Topics  For any topics where the topic was not taught or practically delivered, comment on how significant you believe the lack of coverage is for the course learning outcomes or for later courses in the program. Suggest possible compensating action. | | |
| Topics (if any) not Fully Covered | Effected Learning Outcomes | Possible Compensating Action |
|  |  |  |

3. Course learning outcome assessment.

|  |  |  |  |
| --- | --- | --- | --- |
|  | List course learning outcomes | List methods of assessment for each LO | Summary analysis of assessment results for each LO |
| 1.1 | Define the related basic scientific facts, concepts, principles and techniques in statistics and probability theory | Exams  Home work. |  |
| 1.2 | Recognize the relevant theories and their applications in basic mathematics. |  |
| 2.1 | Apply statistical tools for simple data analysis | Exams  Quizzes.  Homework.  Discussion |  |
| 2.2 | Discuss the results of statistical measures |  |
| 2.3 | Evaluate probability of events using different rules |  |
| 3.1 | Develop connections within branches of statistics and between statistical analysis and other disciplines | Home work.  Reports.  Quizzes.  Discussion |  |
|  | Solve problems using a range of formats and approaches in basic science |  |
| 3.2 | show the ability to work independently and within groups. |  |
| 4.1 | Apply scientific models and tools effectively. | Home work.  Reports.  Discussion |  |
| 4.2 | Use the internet to write reports about basic statistical principles. |  |
| 4.3 | Apply statistical knowledge gained during the course using computer packages |  |

|  |
| --- |
| Summarize any actions you recommend for improving teaching strategies as a result of evaluations in table 3 above. |

|  |  |  |  |
| --- | --- | --- | --- |
| 4. Effectiveness of Planned Teaching Strategies for Intended Learning Outcomes set out in the Course Specification. (Refer to planned teaching strategies in Course Specification and description of Domains of Learning Outcomes in the National Qualifications Framework) | | | |
| List Teaching Methods set out in Course Specification | Were They  Effective? | | Difficulties Experienced (if any) in Using the Strategy and Suggested Action to Deal with Those Difficulties. |
| No | Yes |
| Lectures |  |  |  |
| Tutorials |  |  |  |
| Discussion |  |  |  |
| Problem Solving |  |  |  |

**Note:** In order to analyze the assessment of student achievement for each course learning outcome, student performance results can be measured and assessed using a KPI, a rubric, or some grading system that aligns student work, exam scores, or other demonstration of successful learning.

C. Results

1 . Distribution of Grades

|  |  |  |  |
| --- | --- | --- | --- |
| Letter  Grade | Number of  Students | Student  Percentage | Analysis of Distribution of Grades |
| A |  |  |  |
| B |  |  |  |
| C |  |  |  |
| D |  |  |  |
| F |  |  |  |
| Denied  Entry |  |  |  |
| In Progress |  |  |  |
| Incomplete |  |  |  |
| Pass |  |  |  |
| Fail |  |  |  |
| Withdrawn |  |  |  |

| 2. Analyze special factors (if any) affecting the results |
| --- |

|  |  |
| --- | --- |
| 3. Variations from planned student assessment processes (if any) (see Course Specifications). | |
| a. Variations (if any) from planned assessment schedule (see Course Specifications) | |
| Variation | Reason |
|  |  |
|  |  |
|  |  |
| b. Variations (if any) from planned assessment processes in Domains of Learning (see Course Specifications) | |
| Variation | Reason |
|  |  |
|  |  |
|  |  |

|  |  |
| --- | --- |
| 4. Student Grade Achievement Verification (eg. cross-check of grade validity by independent evaluator). | |
| Method(s) of Verification | Conclusion |
|  |  |
|  |  |

D Resources and Facilities

|  |  |
| --- | --- |
| 1. Difficulties in access to resources or facilities (if any) | 2. Consequences of any difficulties experienced for student learning in the course. |

E. Administrative Issues

|  |  |
| --- | --- |
| 1 Organizational or administrative difficulties encountered (if any) | 2. Consequences of any difficulties experienced for student learning in the course. |

F Course Evaluation

|  |
| --- |
| 1 Student evaluation of the course (Attach summary of survey results) |
| a. List the most important recommendations for improvement and strengths |
| b. Response of instructor or course team to this evaluation |
| 2. Other Evaluation (eg. by head of department, peer observations, accreditation review, other stakeholders) |
| a. List the most important recommendations for improvement and strengths |
| b. Response of instructor or course team to this evaluation |

G Planning for Improvement

|  |  |  |  |
| --- | --- | --- | --- |
| 1. Progress on actions proposed for improving the course in previous course reports (if any). | | | |
| Actions recommended  from the most recent course report(s) | Actions Taken | Action Results | Action Analysis |
| a. |  |  |  |
| b. |  |  |  |
| c. |  |  |  |
| d. |  |  |  |

|  |
| --- |
| 2. List what other actions have been taken to improve the course (based on previous CR, surveys, independent opinion, or course evaluation). |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 3. Action Plan for Next Semester/Year | | | | |
| Actions Recommended for Further Improvement | Intended Action Points  (should be measurable) | Start  Date | Completion  Date | Person Responsible |
| a. |  |  |  |  |
| b. |  |  |  |  |
| c. |  |  |  |  |
| d. |  |  |  |  |
| e. |  |  |  |  |

Name of Course Instructor: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Signature: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date Report Completed: \_\_\_\_\_\_\_\_\_\_\_\_

Program Coordinator: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Signature: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date Received: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_