**Academic program description form**

**University Name: University of Basra**

**Faculty/ Institute : Faculty of Administration and Economics**

**Scientific Department : Department of Statistics**

**Academic or Professional Program Name : Bachelor's degree in statistics**

**Final Certificate Name : Master of Statistics**

**Academic system : Courses**

**Description Preparation Date:26 /2/2024**

**File completion Date : 26/2 /2024**

**Signature: Signature:**

**Head of Department Name : Scientific Associate Name:**

**Date: Date:**

**The file is checked of quality assurance and university performance**

**Director of the quality assurance and university performance department:**

**Date :**

**Signature:**

**Approval of the Dean**

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| 1. **Program vision**
 |
| **The Department of Statistics seeks to prepare graduates in the field of statistical sciences to work in government departments and benefit from specialization in the practical and applied field.** |

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| 1. **Program mission**
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| **Working to prepare and graduate leading scientific and leadership competencies in the field of statistical sciences and to develop the balance of knowledge in the field of scientific research in the field of statistics to serve the local, regional and international community, as well as training and refining the minds of students scientifically and cognitively, and emphasizing social and cultural values and responding to the requirements of the local market.** |

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| 1. **Program objectives**
 |
| 1. **Understand and understand statistics and solve existing statistical and mathematical problems.**
2. **Dealing with statistical problems and developing solutions for them.**
3. **Understanding statistical methods and techniques in solving problems of statistical units.**
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| 1. **Program accreditation**
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| 1. **Other external influences**
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| 1. **Program structure**
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| **reviews** | **Percentage**  | **Credit hours** | **Number of courses**  | **Program structure** |
| **Basic educational materials** |  | **45** | **45** | **Institution requirements** |
|  |  |  | **Yes** | **College requirements**  |
|  |  |  | **Yes** | **Department requirements** |
|  |  |  | **Nothing** | **Summer training** |
|  |  |  |  | **Other** |

* **This can include notes whether the course is basic or optional**

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| 1. **Program description**
 |
| **Credit hours**  | **Course name**  | **Course code**  | **Year/ level** |
| **Practical**  | **Theoretical**  | **Statistical sampling methods** |  | **2023/2024 second level** |
|  | **45** |  |  |  |
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| 1. **Expected learning outcomes of the program**
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| **Knowledge**  |
|  | **- Keeping pace with the development of statistics****- Communicate with everything that is new or useful and adapt it.** |
| **Skills**  |
|  | **. The ability to understand and apply statistics****. Dealing with statistical requirements and problems.** |
|  | **. Building statistical and quantitative foundations for students in the Statistics Department.** |
| **Ethics**  |
|  | **Developing students’ abilities to share ideas.** |
| **Learning outcomes statement 5** | **Learning outcomes 5** |

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| 1. **Teaching and learning strategies**
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| **- Explaining the scientific material to students in detail.****- Participation of students in solving statistical and mathematical problems.****- Discussion and dialogue about vocabulary related to the subject.** |

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| 1. **Evaluation methods**
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| **Daily assignments, assignments, weekly and monthly exams, and the end of the course.** |

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| 1. **Faculty**
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| **Faculty members**  |
| **Number of teaching staff**  | **Special requirements/skills if applicable)**  | **Specialization**  | **Academic rank** |
| **Lecturer**  | **Staff**  |  | **Special**  | **General**  |
|  | **staff** |  |  | **Applied Statistics** | **Statistics** | **Assist lecturer** |

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| **Professional development**  |
| **Mentoring new faculty members** |
| **Briefly describes the process used to mentor new ,visiting ,full-time ,and part time faculty at the institution and department level.** |
| **Professional development of faculty members** |
| **Briefly describe the academic and professional development plan and arrangements for faculty such as teaching and learning strategies , assessment of learning outcomes , professional development…etc** |

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| 1. **Acceptance criterion**
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| **(setting regulations related to enrollment in the college or institute, whether central admission or others)** |
| 1. **The most important sources of information about the program**
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| **Dr. Walid Abdel Hamid Nouri****Abdul Majeed Hamza Al Nasser** |
| 1. **Program development plan**
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| **Program skills outline** |
|  | **Required program learning outcomes**  |
| **Ethics**  | **Skills** | **Knowledge**  | **Basic or optional** | **Course name**  | **Course code** | **Year / level**  |
| **C4** | **C3** | **C2** | **C1** | **B4** | **B3** | **B2** | **B1** | **A4** | **A3** | **A2** | **A1** | **Basic** | **Statistical sampling methods** |  | **2023/2024 frist** |
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* **Please tick the boxes corresponding to the individual program learning outcomes under evaluation**

**Course description form**

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| 1. **Course name :**
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| **Statistical sampling methods** |
| 1. **Course code**
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| 1. **Semester / year**
 |
| **: first semester 2023/2024** |
| 1. **Description preparation date :**
 |
| **26/3/2024** |
| 1. **Available attendance form :**
 |
| **Theoretical lectures in classrooms Weekly** |
| 1. **Number of credit hours (total) / number of units (total)**
 |
| **45hours**  |
| 1. **Course administrator`s name ( mention all, if more than one name)**
 |
| **Name :Rihab Ahmed Abed Email :** **rihab.ahmed@uobasrah.edu.iq** |
| 1. **Course objectives**
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| **Course objectives**  | **Sampling methods:** **1- The course aims to teach students the basic concepts related to the subject of sampling methods.****2- Teaching students how to estimate the parameters of the study population if the parameters are unknown using sample estimates.** |
| 1. **Teaching and learning strategies**
 |
|  **Strategy**  | **In-person lectures****Discussion style** |
| 1. **Course structure**
 |
| **Week** | **hours** | **Required learning outcomes** | **Unit or subject name** | **Learning method**  | **Evaluation method** |
|  **First****the second****the third****the fourth****Fifth****VI****Seventh****VIII****Ninth****The tenth****eleventh****twelveth****Thirteenth****fourteenth****Fifteenth** | **3 hours****3 hours****3 hours****3 hours****3 hours****3 hours****3 hours****3 hours****3 hours****3 hours****3 hours****3 hours****3 hours****3 hours****3 hours** | **Preparing the student scientifically and educationally according to solid scientific foundations****Using the acquired information in the field of life** | **How to choose a simple random sample****Estimate the variance of the mean and the population sum****Confidence limits for the population mean and variance****Estimate the ratio****Choosing a sample size to estimate the population mean and variance****What is stratified sampling****Estimate the mean and population sum for stratification****the first exam** **How to choose a regular sample to estimate the mean and the total of the population****Estimating the variance of the mean and total of the population, estimating the sample size****Estimating the ratio R for a simple random sample****Estimating the mean and total using proportions in a stratified sample****One-stage cluster random sampling****Estimating the arithmetic mean and the sum Estimating the variance of the arithmetic mean****the final exam** | **In-person lectures****=****=****=****=****=****=****=****=****=****=****=****=****=****=****=****=****=****=****=****=** | **Daily and monthly attendance tests****Assigning the student to homework assignments****Observation procedure** **Discussion procedure** |

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| 1. **Course evaluation**
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| **Distribution of the grade out of 100 according to the tasks assigned to the student, such as daily preparation, daily, oral, monthly, written exams, reports, etc.** |
| 1. **Learning and teaching resources**
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| **Required textbooks (curricular books, if any)** |  |
| **Main references (sources)**  | **Dr. Walid Abdel Hamid, Abdel Jabbar Hamza Al Nasser** |
| **Recommended books and references (scientific journals, reports** |  |
| **Electronic references, website**  | **http://www.aitrs.org/ar/node/1011** |