Second Stage/ Geological Statistics G230

Course Description Form

The course description provides a brief summary of the most important characteristics of the course and the learning outcomes expected of the student to achieve, demonstrating whether he has made maximum use of the available learning opportunities.

1.Educational Institution	College of Science/ University of Basrah
2. Department	Geology
3. Course name/Code 1. Programs included in it	Geological Statistics / G230
4. Programs included in	Bachelor
5. Attendance Form Available	Weekly
6. Semester/ Year	2020-2019
7. Total of study hours	30 hours
8. The course description was	prepared in <mark>01/08/2020</mark>

9. Aims of the Course

Primary knowledge of the second stage students to understand the fundamentals of applicative statistical parameters in Geology sectors. The principles of statistics, classification of data, type of statistics, descriptive statistics and a little

of inferential statistics. The aim is that the student should have enough background of statistic after graduation.

10.Course outcomes and methods of teaching, learning and assessment
a- Knowledge and Understanding goals a.1. Understanding what is statistics. a.2. Classification of data a.3. Presentation of data a.4. Types of Statistics. a.5. Descriptive Statistics. a.6. Inferential Statistics. .
b- Subjective- Specific Skills b.1.Abbility to applicate the Statistics parameters in geology. b.2. Assist the students to apply in other fields.
Learning Methods
1. Present the lectures in class. 2. Example discussion and exercise. 3. Exam the students and quiz in class, then share the solutions.
Evaluating Methods
1- Weekly quiz. 2- Monthly exam. 3- Seasonal final exam.
C- Emotional and evolutional goals 1. Understanding the course and capability to applicate it.

Learning Methods
1. Present the lectures in class. 2. Example discussion and exercise. 3. Exam the students and quiz in class, then share the solutions.
d- General qualification skills transferred (other skills related to employability and personality development) 1. Mathematical background development. 2. Mathematical skills refresh. 3. Encourage to applicate the computer softwares. 4.

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1. Sequencing of course content

Week	Hours	Unit name	Course Outcomes	Learning method	Evaluation method
1st	2	Theoretical: General introduction and definitions	Understanding the introduction and concepts.	Lecture in class	Daily and monthly tests
2nd	2	Theoretical: Data classification Data presentation methods	Easily to recognize the data types.	Lecture in class	Daily and monthly tests
3rd	2	Theoretical: Descriptive statistics. Measure of tendency	Learning how applicate the measures.	Lecture in class	Daily and monthly tests
4th	2	Theoretical: Measure of variability. Relative positions of data	Learning how applicate the measures.	Lecture in class	Daily and monthly tests
5th	2	Theoretical: Inferential statistics. Probability fundamentals	Learning how applicate it.	Lecture in class	Daily and monthly tests
6th	2	Theoretical: Probability hypotheses with presented examples.	Learning how applicate it.	Lecture in class	Daily and monthly tests
7th	2	Theoretical: Normal distribution.	Learning how applicate it.	Lecture in class	Daily and monthly tests
8th	2	Theoretical: Correlation and Regression	Learning how applicate it.	Lecture in class	Daily and monthly tests

11. Infrastructure	
1- Textbooks required for the course	Lectures prepared.
2 References	Beginning Statistics. Version 1.0.
Recommended readings	Any publication covers the statical applications. Case studies and papers adopted the statics to study the geological fields. This will give direct and simplest understanding of the tool and specialization.
Electronic website	NA

12. Course Development Plan
- The course was updated using the worldwide publications collected from internet and reference textbooks last years and will continue to add extra and replace the contents by simplest way and more beneficial / effective to the students.   - Trying to include the softwares of statistics applications within the course where it considers applicable class. The aim to simplify it as much as possible.

- Planning to encourage the students to adopt the statists applications when they have been assigned to complete the graduation project in the last stage of study.