



College: Engineering

Department: Civil

Course Title: foundation engineering

Course No: CE418

Credit Hours: 3Hours

Semester: 2021 / 2020

About The Course

Course Title: foundation engineering

Class:410

Course No: CE418

Credit Hours: 3

Lecture Room: 410

Obligatory/ Optional: Obligatory

Text Book: Principles of foundation Engineering (8th Ed.) Braja M.Das

Foundation analysis And Design (5rd Ed.) Toseplt E.Bowles

The Instructor

Name: DR.Talal Masou'd

Title: Full time lecturer

Office Tel:

Office No: 209

Office Hours:

E-maile: Dr.talalmasoud@outlook.com

Course Description

1. Shear strength of soil
2. Types of foundation
3. Failure on soil
4. Type of settlement
5. Design of footing
6. Details of footing

Course Objectives

1. Describe the magnitude of shear stress that a soil can sustain ,and describe types of failure on soil
2. analysis and Design single footing .
3. calculate ultimate bearing capacity
4. analysis and Design combined footing .
4. analysis and Design wall footing .

Learning Outcome

Making students aware of how language works to convey meaning as its basic function

Course Outline and Time schedule

Week	Course Outline
First week	Soil mechanics
2 nd week	Shear strength of soil
3 rd week	Type of foundation
4 th week	Depth of footing (factor effecting the depth of factors)
5 th week	Types of failure on soil

6 th week	Ultimate bearing capacity and allowable bearing factor of safety
7 th week	Immediate settlement
8 th week	Consolidation settlement
9 th week	Secondary consolidation settlement
10 th week	Subsurface exploration
11 th week	Analysis of footing
12 th week	Design of single footing
13 th week	Design of single footing
14 th week	Design of combined footing
15 th week	Details of footing

Presentation methods and techniques

Methods of teaching varied according to the type of text, student and situation. The following techniques are usually used:

- 1- Lecturing with active participations.
- 2- Problem solving.
- 3- Cooperative learning.
- 4- Discussion.
- 5- Learning by activities.
- 6- Connecting students with different sources of information

Sources of information and Instructional Aids

For example: Computer ... power point ...etc.

- Transparencies
- Distance learning
- Library sources

Assessment Strategy and its tools

The assigned syllabus is assessed and evaluated
Through: feed back and the skills that are acquired by the students

The tools:

- 1- Diagnostic tests to identify the students level and areas of weakness
- 2- Formal (stage) evaluation
 - a) Class Participation
 - b) Ist Exam
 - c) 2nd Exam
 - d) Activity file

Tool & Evaluation

Tests are permanent tools & assessment, in addition to the activity file which contains curricular and the co-curricular activities, research, report papers and the active participation of the student in the lecture.

The following table clarifies the organization of the assessment schedule:

Test	Date	Grade
First Exam		20
2 nd Exam		20
Activities & Participation	Students should be notified about their marks	20
Final Exam		40

Activities and Instructional Assignment

- 1- Practical assignments to achieve the syllabus objectives.
- 2-

Regulations to maintain the teaching-Learning Process in the Lecture:

- 1- Regular attendance.
- 2- Respect of commencement and ending of the lecture time.
- 3- Positive relationship between student and teacher.
- 4- Commitment to present assignments on time.
- 5- High commitment during the lecture to avoid any kind of disturbance and distortion.
- 6- High sense of trust and sincerity when referring to any piece of information and to mention the source.
- 7- The student who absents himself should submit an accepted excuse.
- 8- University relevant regulations should be applied in case the students behavior is not accepted.
- 9- Allowed Absence percentages is (%).

Internet websites

- 1.....
- 2.....
- 3.....

References :

- 1.....
- 2.....
- 3.....

Syllabus Classification

Objectives	<i>Learning outcome</i>	<i>Assessment tools</i>
1-		
2-		
3-		
4-		
5-		

