

  
**AMOU UNIVERSITY**  
**“A Vehicle for Peace and Development”**  
**AMOU UNIVERSITY**



**FACULTY OF ENGINEERING**

**BACHELOR OF SCIENCE IN CIVIL ENGINEERING**  
**ACADEMIC YEAR 2015/ 2016**

**COURSE DESCRIPTION**

<b>CENG 342</b>	<b>Soil Mechanics I</b>		
Contact Hours	3		
Pre-requisite	N/A		
Purpose/Aim	This course is designed to introduce civil engineering students to the properties and behavior of soil as an engineering material and their application in the solution of certain civil engineering problems such as compressibility of Soil seepage, retaining walls and stability of slopes.		
Course Objective (Indicative Learning Outcomes)	Students will able to : <ul style="list-style-type: none"> <li>• Evaluate and classify soils.</li> <li>• Evaluate the state of stress in a soil mass.</li> <li>• Calculate seepage volume through a soil mass.</li> <li>• Estimate settlement magnitude of compressible soils.</li> <li>• Evaluate lateral earth pressures on retaining walls.</li> <li>• Perform slope stability analysis.</li> </ul>		
Course Content			
Learning & Teaching Methodologies	Lectures, tutorials and computer laboratory exercises		
Instructional Materials/Equipment	Classroom with audio visual aids Computer laboratory		
Course Assessment	<b>Type</b>	<b>Weighting (%)</b>	
	Final Examination	60	
	Mid Term Examination	20	
	Assignment	10	
	Attendance	10	
	Total	100	
Recommended Reading	<b>Title</b>	<b>Author</b>	<b>Publisher</b>
Additional Reading			
Other Support	A variety of multimedia systems and electronic information resources as		



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Material	prescribed by the lecturer. Various application manuals, URL search and journals.
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