

MAJMAAH UNIVERSITY  
COLLEGE OF ENGINEERING  
**Student Learning Outcomes Survey**

The below information should be filled by the instructor

Department:	<b><u>Civil and Environmental Eng.</u></b>	Academic Year:	<b><u>2017-18-S</u></b>							
Course Title:	<b><u>Senior Design 1</u></b>	Course ID:	<b><u>CE498</u></b>							
Number of students:	<b><u>2/2</u></b>	Section Number:	<b><u>Surveying Proj</u></b>							
Instructor Name:	<b><u>Dr. SaMeH S Ahmed</u></b>									
<b>a</b>	<b>b</b>	<b>c</b>	<b>d</b>	<b>e</b>	<b>f</b>	<b>g</b>	<b>h</b>	<b>i</b>	<b>j</b>	<b>k</b>
<b>4.10</b>		<b>4.3</b>		<b>4.00</b>	<b>4.3</b>	<b>4.2</b>	<b>4.4</b>	<b>4.4</b>		

Dear student,

This survey will be used for Program's continuous improvement. So, we encourage you to read the questions carefully and filling cells with the (X).

1. Poor
2. Below Average
3. Average
4. Above Average
5. Outstanding

**Outcome a:** An ability to apply knowledge of mathematics, science, and engineering

	1	2	3	4	5
To what degree do you use mathematical and/or scientific principles to model the behavior of engineering systems					
To what degree do you translate academic theory into engineering applications					
To what degree do you accept limitations of mathematical models of physical reality					
To what degree do you execute calculations correctly either by hand or by mathematical software					
To what degree do you correctly analyze data sets using statistical concepts					

**Outcome c:** An ability to design a system, component, or process to meet desired needs within realistic constraints

	1	2	3	4	5
To what degree do you develop a design strategy					
To what degree do you use computer tools and engineering resources effectively					
To what degree do you develop a solution that includes economic, safety and other realistic constraints					
To what degree do you apply scientific principles correctly to design practical processes					
To what degree do you recognize how accurate is your design answer					

<b>Outcome e:</b> An ability to identify, formulate, and solve engineering problems					
	1	2	3	4	5
To what degree do you relate theoretical concepts to practical problem solving					
To what degree do you predict and defend problem outcomes					
To what degree do you use appropriate resources to locate information needed to solve problems					
To what degree do you take new information and effectively integrates it with previous knowledge					
To what degree do you formulate strategies for solving problems					

<b>Outcome f:</b> An understanding of professional and ethical responsibility					
	1	2	3	4	5
To what degree do you understand and abide by the Code of Ethics and the Code of Conduct					
To what degree do you participate in class discussions and exercises on ethics and professionalism					
To what degree do you take personal responsibility for your actions					
To what degree are you attend classes regularly					
To what degree do you use personal value system to support actions					

<b>Outcome g:</b> An ability to communicate effectively					
	1	2	3	4	5
To what degree do you routinely present at team meetings or work sessions					
To what degree do you contribute a fair share to the project workload					
To what degree are you prepared for the group meeting with clearly formulated ideas					
To what degree do you cooperate with others					
To what degree do you share credit for success with others and accountability for team errors					

<b>Outcome h:</b> The broad education necessary to understand the impact of engineering solutions in a global, economic, environmental, and societal context.					
	1	2	3	4	5
To what degree are you familiar with the current trends in the engineering and technology disciplines					
To what degree do you respect the historical aspects of engineering solutions and their impacts					
To what degree do you value the importance of engineering in today's world					
To what degree do you follow the needs of the current job market					
To what degree do you able to discuss major political and economic issues at national and local levels					

**Outcome i:** Recognition of the need for and an ability to engage in life-long learning

	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>
To what degree are you able to learn independently					
To what degree do you go beyond what is required in completing an assignment					
To what degree do you do you learn from mistakes					
To what degree do you demonstrate capability to think for your self					
To what degree do you oarticipate in professional and technical gathering					