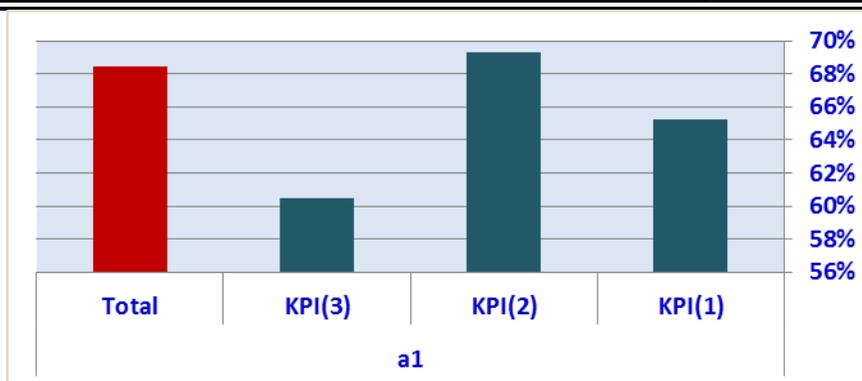


College: Science – AL-Zulfi Department: Mathematics Program: B.Sc. (Mathematics)

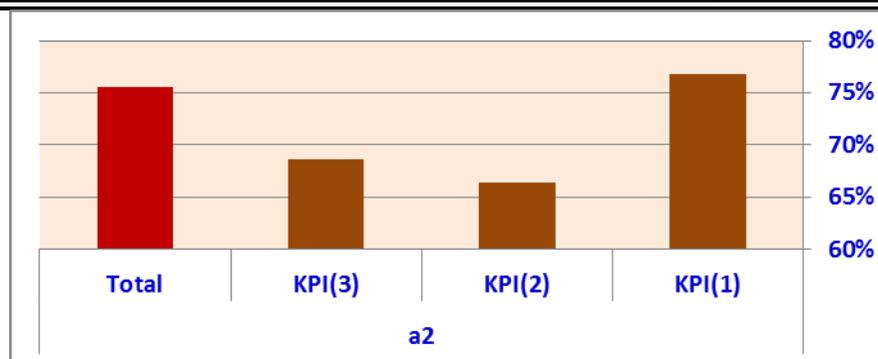
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(B) Assessment Analysis

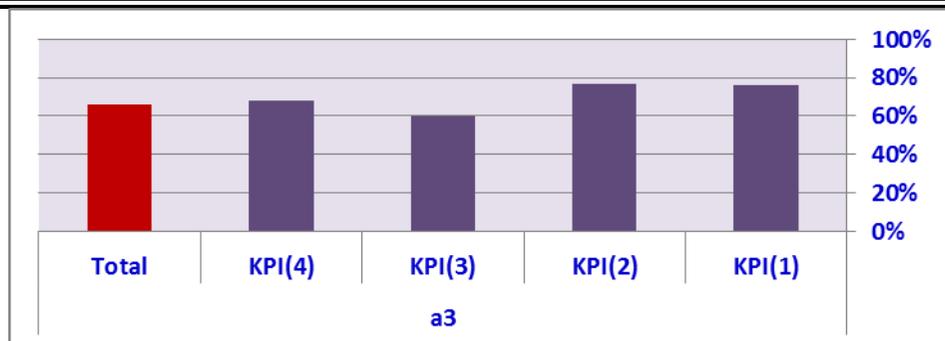
	Strengths	Weakness
<p>Student Learning Outcome Code: (a1) On successful completion of this programme, students should be able to Reproduce and Define fundamentals and concepts of Mathematics.</p>	<ul style="list-style-type: none"> Identification of Mathematics Principles 	<ul style="list-style-type: none"> Use of mathematical steps toward solving several problems Interpretation and appropriate presentation of results



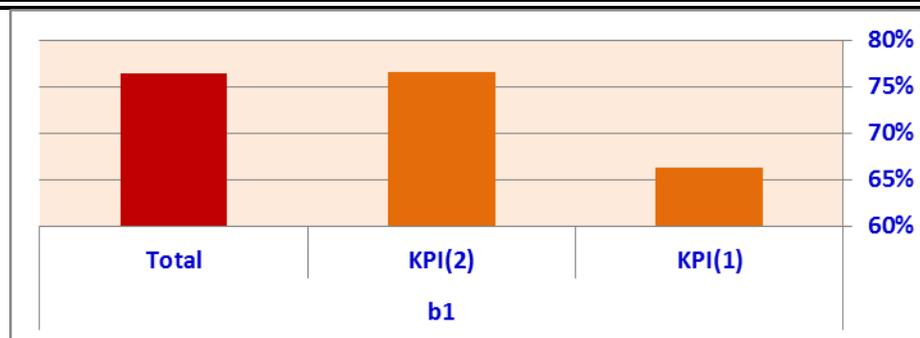
	Strengths	Weakness
<p>Student Learning Outcome Code: (a2)</p> <p>On successful completion of this programme, students should be able to Reproduce fundamentals and concepts of General sciences and Computer skills.</p>	<ul style="list-style-type: none"> General science Concepts 	<ul style="list-style-type: none"> Errors measurements (Most (60-75%) of assumptions and solution steps have no errors.) Explanation (Explanation is a little difficult to understand, but includes critical components.)



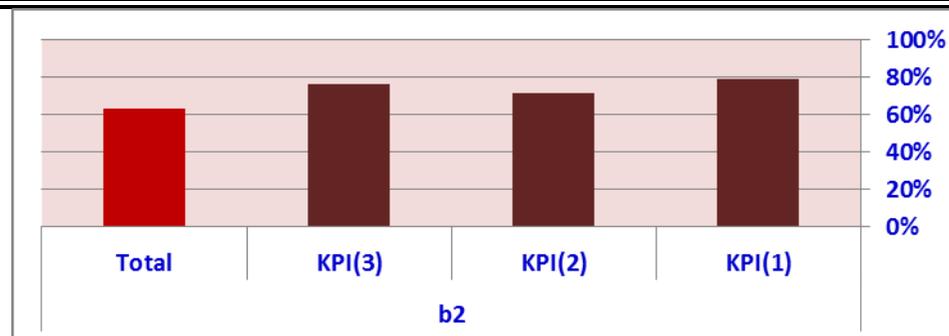
	Strengths	Weakness
<p>Student Learning Outcome Code: (a3)</p> <p>On successful completion of this programme, students should be able to Continue to acquire and outline mathematical and statistical knowledge and skills appropriate to professional activities</p>	<ul style="list-style-type: none"> Mathematical Reasoning Strategy/Procedures 	<ul style="list-style-type: none"> Mathematical Terminologies and Notations (Correct terminologies and notations are used; sometimes it is not easy to understand what is going on.) Integrative and Applied Learning <ul style="list-style-type: none"> (Is able to use previous knowledge and experience to expand one's horizon of learning new knowledge)



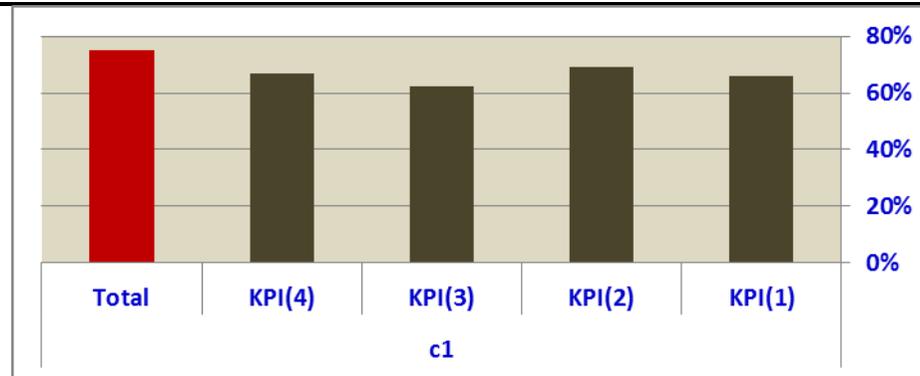
	Strengths	Weakness
<p>Student Learning Outcome Code: (b1)</p> <p>On successful completion of this programme, students should be able to Construct mathematical arguments and proofs and apply the underlying unifying structures of Mathematics.</p>	<ul style="list-style-type: none"> Formulate the problem using equations 	<ul style="list-style-type: none"> Solving equations and finding an answer (solved with some errors)



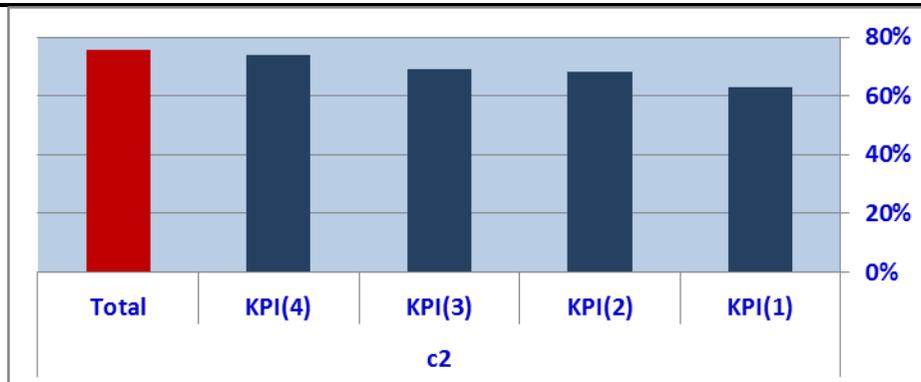
	Strengths	Weakness
<p>Student Learning Outcome Code: (b2)</p> <p>On successful completion of this programme, students should be able to Develop and explain critical thinking skills to solve problems that can be modeled mathematically</p>	<ul style="list-style-type: none"> ● Problem Solving - Is a process in which one works through a series of operations to come to a conclusion ● Creativity - Involves the ability to adapt to situations of Change. 	<ul style="list-style-type: none"> ● Inquiry and Analysis - A systematic process of exploring issues/ objects/works through the collection and analysis of evidence that result in informed conclusions/judgments



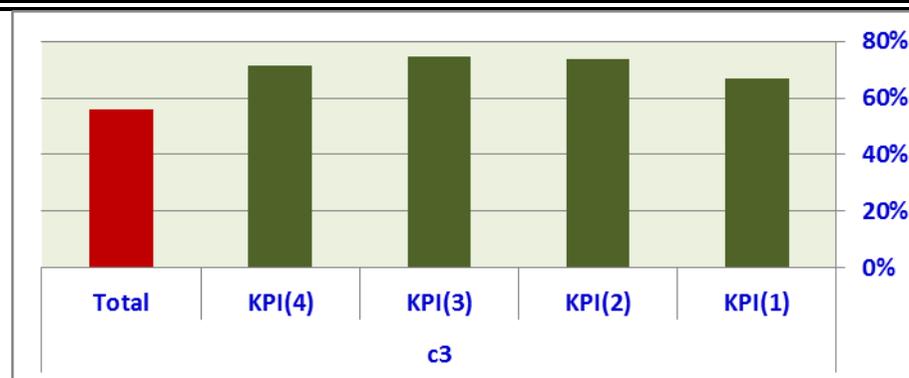
	Strengths	Weakness
<p>Student Learning Outcome Code: (c1)</p> <p>On successful completion of this programme, students should be able to Demonstrate the work independently and within a team</p>	<ul style="list-style-type: none"> Monitors Group Effectiveness Creativity 	<ul style="list-style-type: none"> Quality of Work Working with Others Personal Organization/Time Management An ability to manage several tasks at once and prioritize



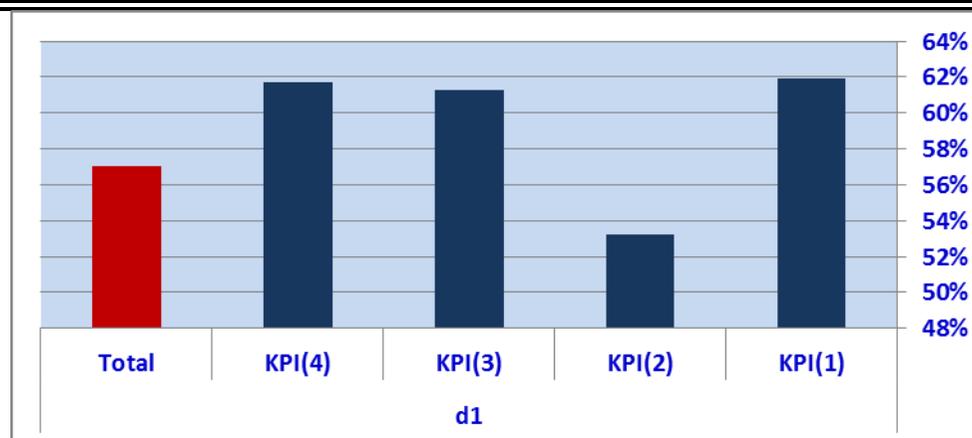
	Strengths	Weakness
<p>Student Learning Outcome Code: (c2)</p> <p>On successful completion of this programme, students should be able to illustrate and bear responsibility for different situations</p>	<ul style="list-style-type: none"> ● Leadership - Involves having a vision of where the organization is headed and the ability to give direction and guidance to others 	<ul style="list-style-type: none"> ● Problem-solving ● Contributions ● Preparedness



	Strengths	Weakness
<p>Student Learning Outcome Code: (c3)</p> <p>On successful completion of this programme, students should be able to Analyze and realize the codes of ethics and their importance</p>	<ul style="list-style-type: none"> • Attitude • Pride 	<ul style="list-style-type: none"> • Focus on the task • Personal Organization/Time Management- An ability to manage several tasks at once and prioritize



	Strengths	Weakness
<p>Student Learning Outcome Code: (d1)</p> <p>On successful completion of this programme, students should be able to Communicate mathematical ideas, both orally and in writing</p>	<ul style="list-style-type: none"> • Ability to express ideas and answer questions • Active Listening 	<ul style="list-style-type: none"> • Oral Communication • Written Communication



	Strengths	Weakness
<p>Student Learning Outcome Code: (d2)</p> <p>On successful completion of this programme, students should be able to Critically interpret numerical and graphical data</p>	<ul style="list-style-type: none"> Depth and Breadth of Understanding 	<ul style="list-style-type: none"> Quantitative Expertise Diagrams and/or sketches Information Gathering

