

**FINAL EXAM ODD SEMESTER ACADEMIC YEAR 2021/2022**  
**STUDY PROGRAM INFORMATION SYSTEMS**  
**FACULTY OF ENGINEERING AND INFORMATICS**  
**UNIVERSITAS MULTIMEDIA NUSANTARA**

<b>Subject</b>	<b>: Visual Programming (Theory)</b>	<b>Date</b>	<b>:</b>
<b>Lecturer(s)</b>	<b>: Rudi Sutomo,S.Kom.,M.Si.,M.Kom.</b>	<b>Time</b>	<b>:</b>
<b>Form</b>	<b>: Essay / Project</b>	<b>Type</b>	<b>: Onsite / Takehome</b>

**EXAM CONDITIONS / INSTRUCTIONS:**

Please answer the following questions clearly and meaningfully. Answers are collected in PDF format with the name [NIM\_NAME\_CLASS].pdf.

**COURSE SUB LEARNING OUTCOMES (SUB-CLO):**

<b>SUB LEARNING OUTCOMES (SUB-CLO)</b>		<b>ELO</b>
<b>Code</b>	<b>Description</b>	
CLO4-Sub-CLO8	Students implement the concept of components in the GUI in programming (C6).	ELO H
CLO4-Sub-CLO9	Students make applications related to database queries (C6)	ELO H
CLO4-Sub-CLO10	Students make applications related to database manipulation (C6)	ELO H
CLO4-Sub-CLO11	Students make applications with the concept of link that are connected to the database (C6)	ELO H
CLO5-Sub-CLO12	Students make a report making application with crystal report (C6)	ELO H
CLO5-Sub-CLO13	Students make a report filter creation application with crystal report (C6)	ELO H
CLO6-Sub-CLO14	Students create applications to manipulate files (A5)	ELO H

**PROBLEM/QUESTIONS:**

**1. Question 1: CLO4-Sub-CLO8 & CLO4-Sub-CLO9**

**Weight (15%)**

Mention 10 examples of GUI in windows form and explain its use?

**ASSESSMENT RUBRIC (per question):**

<b>Rated aspect</b>	<b>Assessment criteria</b>		
	<b>Poor</b>	<b>Satisfactory</b>	<b>Good</b>
	<b>&lt; 50</b>	<b>50-75</b>	<b>&gt; 75</b>
Answer accuracy	Can't give an explanation about GUI in Windows Form	Can explain in general but cannot explain specifically examples GUI in Windows Form, whether in the interface Visual C#.	Can explain in general and also specifically specifically examples GUI in Windows Form, whether in the interface Visual C#.

**2. Question 2: CLO4-Sub-CLO10**

**Weight (25%)**

How to connect Visual C# program with Database ? explain step by step?

**ASSESSMENT RUBRIC (per question):**

<b>Rated aspect</b>	<b>Assessment criteria</b>		
	<b>Poor</b>	<b>Satisfactory</b>	<b>Good</b>
	<b>&lt; 50</b>	<b>50-75</b>	<b>&gt; 75</b>
Answer accuracy	Can't give an explanation about connect Visual C# program with Database	Can explain in general but cannot explain specifically about connect Visual C# program with Database.	Can explain in general and also specifically about the connect Visual C# program with Database

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**3. Question 3: CLO4-Sub-CLO11**

**Weight (25%)**

What is Connection with LINQ and how to use LINQ connection explain in detail and step by step ?

**ASSESSMENT RUBRIC (per question):**

Rated aspect	Assessment criteria		
	Poor	Satisfactory	Good
	< 50	50-75	> 75
Answer accuracy	Can't give an explanation about Connection with LINQ.	Can explain in general but cannot explain specifically about Connection with LINQ.	Can explain in general and also specifically about the about Connection with LINQ.

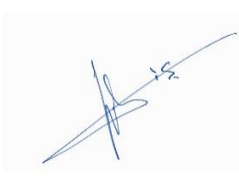

**4. Question3: CLO5-Sub-CLO12 & CLO5-Sub-CLO13 & CLO6-Sub-CLO14**

**Weight (35%)**

Why use Report generation with Crystal Reports ? and explain how to connect to Visual C# and how to use it? And then explain how to manipulate report data so that it can be printed according to the desired period?

**ASSESSMENT RUBRIC (per question):**

Rated aspect	Assessment criteria		
	Poor	Satisfactory	Good
	< 50	50-75	> 75
Answer accuracy	Can't give an explanation about Report generation with Crystal Reports	Can explain in general but cannot explain specifically about Report generation with Crystal Reports	Can explain in general and also specifically about Report generation with Crystal Reports.

References:	Created by:	Approved by:
Material Week 8-14	<p>on behalf of the Lecturer Team</p>  <p>(Rudi Sutomo, S.Kom., M.Si., M.Kom.) Course Coordinator</p>	 <p>(Ririn Ikana Desanti, S.Kom., M.Kom.) Head of Study Program</p>