

**BACHELOR OF COMPUTER  
FACULTY/SCHOOL OF COMPUTER SCIENCE  
BINA NUSANTARA UNIVERSITY  
JAKARTA**

**ASSESSMENT FORM**

**Course: DTSC6013001 - Data Mining and Visualization**

**Method of Assessment: Case Study**

**Semester/Academic Year : 2/2023-2024**

**Name of Lecturer : Ni Luh Putu Satyaning Pratnya Paramita S.Si., M.Si., Ph.D – D6861**  
**Date : 19 June 2024**  
**Class : LC09**  
**Topic : Exploratory Data Analysis – Inequality in Education in the World**

<b>Group Members :</b>	1 Valen - 2602198421 2 Muhammad Noufal Rheznandya Putra - 2602147704 3 Kaizerio Emanuele Wibowo - 2602088746
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**Student Outcomes:**

(SO 8) Mampu menggunakan teknologi maha data untuk mendapatkan wawasan bisnis di era digital  
*Able to use big data technology to get business insight in digital era.*

**Learning Objectives:**

(LObj 8.1) Mampu mengumpulkan data dari berbagai sumber digital  
*Able to collect multi-source digital data.*

(LObj 8.2) Mampu memanfaatkan maha data dalam teknologi awan untuk mendapatkan wawasan bisnis  
*Able to utilize bigdata in cloud computing platform for generating business insight.*

**Learning Outcomes :**

LO-1: Explain the concepts of data preprocessing, exploratory data analysis, and data storytelling.

LO-2: Demonstrate data preprocessing and data exploration with R.

LO-3: Use R to create visualization and report.

LO-4: Perform data storytelling to convey insights to others.

No	Related LO-LOBJ-SO	Assessment criteria	Weight	Excellent (85 - 100)	Good (75-84)	Average (65-74)	Poor (0 - 64)	Score	(Score x Weight)
1	LO 1 & LO 3- LOBJ 8.2 – SO 8	Visual Quality	25	80% of the design elements align with the topic, title, and message, making the presentation visually appealing.	70% of the design elements align with the topic, title, and message, making the presentation visually appealing.	60% alignment with the infographic's topic, title, and message	The design does not align well with the infographic's topic, title, and message, causing a disconnect in design choices and visual messages		
2	LO 1& LO 3; LO 4– LOBJ 8.2 – SO 8	Oral Presentation	20	The presentation is exceptionally well-structured, engaging and adhere to the time limit	The presentation is well-structured, engaging, and only slightly exceeds the time limit.	The presentation is adequately structured, somewhat engaging, and exceeds the time limit.	The presentation is disorganized, unengaging, and exceeds the time limit.		
3	LO 1 & LO 2 – LOBJ 8.1 & LOBJ 8.2 – SO 8	Quality of Presented Information	30	The provided information should be at least 80% clear, comprehensive, and easy to understand	The provided information should be at least 70% clear, comprehensive, and easy to understand	The provided information should be at least 50% clear, comprehensive, and easy to understand	The information provided should be at least 40% clear, comprehensive, and easy to understand.		

No	Related LO- LOBJ-SO	Assessment criteria	Weight	Excellent (85 - 100)	Good (75-84)	Average (65-74)	Poor (0 - 64)	Score	(Score x Weight)
4	LO 1, LO 2, & LO 4 – LOBJ 8.1; LOBJ 8.2 – SO 8	Creativity	25	The idea is highly creative, original, exciting, and has a profound impact on society	This idea is highly creative, original, and has the potential to make a profound impact on society.	The idea is creative, original, and has the potential to contribute to society	The idea is not creative or original and does not make a meaningful contribution to society.		
<b>Total Score:</b> $\sum(\text{Score} \times \text{Weight})$									

Remarks:

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## **ASSESSMENT METHOD**

The criteria for evaluating the project are:

1. **Quality of presented information:** Relevant data should be presented in a clear and comprehensive manner, and the text should be easily understandable.
2. **Oral presentation:** The presentation should be structured, engaging, and adhere to time limit.
3. **Visual Quality:** Design elements should be appropriate for the infographic's topic, title, and message.
4. **Creativity:** The idea should be exciting, creative, original, and contribute to society.

**Students must create an E-Poster on SDGs, following these guidelines:**

1. Topic: "Case Study related to one of Sustainable Development Goals (SDGs)"
2. Use SDG-related data.
3. Students analyze, design, and compose infographics with concise paragraph descriptions.
4. Choose a relevant title that matches the topic.
5. Submit E-Poster in PNG format on a 60 cm x 90 cm canvas with 300 dpi resolution.
6. Use valid data and cite your sources properly.
7. Video (.mp4):
  - a. Explain the infographic in English.
  - b. Keep the video under 10 minutes.
  - c. Ensure clear audio quality.
8. Submission requirements:
  - a. Compress the file in either .rar or .zip format. File Name: GroupX\_Goal; E.g: Group1\_QualityEducation
  - b. Include the following components in the compressed file:
    - .pdf file (Infographic description)
    - Datasets
    - E-poster (an infographic)
    - Video

**Notes for Lecturers:**

1. Each team should consist of 2-3 students.
2. The project details must be explained on the first day of class.
3. The deadline for the submission of work is one week after the 13th session.
4. The assessment form should be filled in based on the number of groups in the class.