**BACHELOR OF COMPUTER SCIENCE**

**FACULTY/SCHOOL OF COMPUTER SCIENCE**

**BINA NUSANTARA UNIVERSITY**

**BANDUNG**

**ASSESSMENT FORM**

**Course: CPEN6256051 - Computer Networks**

**Method of Assessment: Case Study / Project**

**Semester/Academic Year : 5/2023-2024**

**Name of Lecturer : ……………………………**

**Date : ...........................................**

**Class : ............................................**

**Topic : Networking Media / Topology, IP Addressing & Subnetting, Routing, Application layer (HTTP / SMTP - Web/Email)**

|  |  |
| --- | --- |
| **Group Members :** | 1 Dr. Johan Muliadi Kerta, S.Kom., M.M.  2\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  3\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  4\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  5\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  6\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  7\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  8\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |

**Student Outcomes**:

**SO 2 - Mampu merancang, mengimplementasikan, dan mengevaluasi solusi berbasis komputasi untuk memenuhi serangkaian persyaratan komputasi dalam konteks ilmu komputer.**

***Able to design, implement, and evaluate a computing-based solution to meet a given. set of computing requirements in the context of computer science***

**Learning Objectives:**   
**LObj 2.1 – Mampu merancang solusi berbasis komputasi untuk memenuhi serangkaian persyaratan komputasi tertentu dalam konteks ilmu komputer**

***Able to design a computing-based solution to meet a given set of computing requirements in the context of computer science.***

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **NO** | **Learning Outcome** | **Weight** | **Key Indicator** | **Proficiency Level** | | | | **Score** | **Weight x Score** |
| **Excellent** | **Good** | **Average** | **Poor** |
| **(85 - 100)** | **(75 - 84)** | **(65 - 74)** | **(0 - 64)** |
| 1 | LO1: Describe basic structures of network | 0% | Ability to explain many kind of algorithms | Correct explanation is given with relevant examples | Correct explanation is given with partially relevant examples | Correct explanation | Incorrect explanation |  |  |
| Ability to use output by using File Processing | The usage of output by using File Processing is correct and effective to solve the programming problem | The usage of output by using File Processing is correct to solve the problem | The usage of output by using File Processing is partially correct | The usage of output by using File Processing is not correct |
| Ability to design pseudo-code in many kind of problems | Correctly and effectively designing pseudo-code in many kind of problems | Correctly designing pseudo-code in many kind of problems | Partially correct in pseudo-code in many kind of problems a clear pseudo-code | Incorrectly designing pseudo-code in many kind of problems the pseudo-code |
| 2 | LO2: Explain basic concepts of network | 0% | Ability to use output operation | The usage of output operation is correct and effective to solve the programming problem | The usage of output operation is correct to solve the problem | The usage of output operation is partially correct | The usage of output operation is not correct |  |  |
| Ability to use input operation | The usage of input operation is correct and effective to solve the programming problem | The usage of input operation is correct to solve the problem | The usage of input operation is partially correct | The usage of input operation is not correct |
| 3 | LO3: Explain concepts of create network environment | 100% | Ability to apply logic thinking | Correctly and effectively applying logic thinking to solve the programming problem | Correctly applying logic thinking to solve the programming problem | Partially correct in applying logic thinking to solve the programming problem | Incorrectly applying logic thinking to solve the programming problem |  |  |
| Ability to operate syntax and functions in C | All the syntax and functions in C are correctly and effectively operated | All the syntax and functions in C are correctly operated | Only some of the syntax and functions in C are correctly operated | None of the syntax and functions in C are correctly operated |
| Ability to choose the searching algorithm to solve the programming problem | Correctly choosing the most effective searching algorithm to solve the programming problem | Correctly choosing effective searching algorithm to solve the programming problem | Correctly choosing searching algorithm to solve the programming problem | Incorrectly choosing searching algorithm to solve the programming problem |

Remarks:

**ASSESSMENT METHOD**

Instructions

Using maps given, design network system for 3 floors include devices need, media used and length of media, IP Addressing & Subneting, Routing concepts, application layer (Web/Mail)

Criteria for this design :

1. Devices used, Networking Media types and length of media used
2. IP Addressing & Subnetting
3. Routing
4. Application Layer

To make sure your design is proper, you can used Cisco Packet Tracer as a tools to design.

**Note for Lecturers**:

Lectures can used link below to give maps of floor to each group . Each groups with 3 floors maps

1. [Kampus Anggrek | BINUS Online Learning](https://onlinelearning.binus.ac.id/kampus-anggrek/)
2. [Kampus Alam Sutera | BINUS Online Learning](https://onlinelearning.binus.ac.id/kampus-alam-sutera/)
3. [Kampus Syahdan | BINUS Online Learning](https://onlinelearning.binus.ac.id/kampus-syahdan/)