



UNIVERSITI TEKNOLOGI MARA

COURSE	:	FUNDAMENTALS OF COMPUTER PROBLEM SOLVING
COURSE CODE	:	CSC128
ASSESSMENT	:	GROUP PROJECT (Proposal)
TOTAL MARKS	:	5%

Objective:

The objective of this project is to develop students' problem-solving strategies, techniques and analytical skills that can be applied to the computer field or in other areas as well as to use in their subsequent course work and professional development. This project will emphasize on the introduction of computer problem solving with the use of C++ programming language to illustrate the solution.

Outcomes:

Students should be able to construct basic programs to solve the daily problems using designated programming control structures (selection, repetition, function, and array).

PROPOSAL GUIDELINES

1. Project Title

Students are required to identify a problem which arises in our daily life, then design appropriate solutions, and solve the problem in a computerized way.

2. Group Members

Students are required to establish a group with **3 – 4 members**.

3. Proposal Report (5%)

a) Each group needs to submit a proposal to suggest a title and its detailed description.

b) Your proposal report must contain the following information:

- **Proposal Cover Report (Please use the Cover Report provided)**
- **Project Title**
- **Proposed Project Summary**
- **Objective of the project**
- **Flow of the System** (show in diagram – *not necessary in flowchart*)

Format:

- Font Face: **Arial**
- Font size: **11-point**
- Page Number: **Bottom and centre of each page**

Your proposal will be rejected if any of the required information is not stated in the proposal. After the proposal is accepted, you may start designing and coding the project. Each group is required to submit a proposal to your lecturer.

c) Details of Report Submission:

- Submission deadline: **XXXXX**
- Submission Method:
 - Save your proposal in .pdf format.
 - Rename your proposal to **XXXXX**

Link of Submission: **XXXXX**



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COURSE	:	FUNDAMENTALS OF COMPUTER PROBLEM SOLVING
COURSE CODE	:	CSC128
ASSESSMENT	:	GROUP PROJECT (Project Final Report and Presentation)
TOTAL MARKS	:	15%

Objective:

The objective of this project is to develop students' problem-solving strategies, techniques and analytical skills that can be applied to the computer field or in other areas as well as to use in their subsequent course work and professional development. This project will emphasize on the introduction of computer problem solving with the use of C++ programming language to illustrate the solution.

Outcomes:

Students should be able to construct basic programs to solve the daily problems using designated programming control structures (selection, repetition, function, and array).

FINAL REPORT GUIDELINES

1. Project Title

Students are required to identify a problem which arises in our daily life, then design appropriate solutions, and solve the problem in a computerized way.

2. Group Members

Students are required to establish a group with **3 – 4 members**. (The number of members per group depending on the number of students in the class and the number of classes).

3. Final Project (15%)

a) Based on the proposal, write a complete program to solve the problem by using C++ programming language. The following criteria **MUST** be implemented in your program:

- **Input and Output operations**
- The three control structures - **sequential, selection and repetition**
- **Function** – including passing parameters
- **Array** - implementing summation, average, highest/lowest, counter
- **Processes - Calculation/Formula** related to the project title (e.g., discount, tax, summation/total etc).
- **Include comments** at any part of your program that is necessary for indicating the purposes.

b) Prepare a complete report which consists of:

- **Final Cover Report (Please use the Cover Report provided)**
- **Analysis – Input/Process/Output**
- **Design Algorithm – Flowchart and Pseudocode**
- **Source code/Coding**
- **Two (2) samples of output**

c) Format:

- Font Face: **Arial**
- Font size: **11-point**
- Page Number: **Bottom and centre of each page**

d) Details of Project Presentation and Report Submission:

Final Report Submission deadline: **XXXXX**

Presentation Date: **XXXXX**

Submission Method:

- Save your final report in .pdf format.
- Rename your proposal to **XXXXX**
- Link of Submission: **XXXXX**