INTERNATIONAL SCHOOL
VIETNAM NATIONAL UNIVERSITY, HANOI

EXAMINATION

Code: 01

	Lecturer's Signature
Program: MIS, BDA, ICE	
Course Code: INS2020	
Course Title: PROGRAMMING I	Nguyễn Doãn Đông
Level:	
	Date: 10/05/2021
Time allowed:	*Department's Signature*
Date: 10/05/2021	
Time: 10 minutes for presentation and 5 minutes for Q&A	
	Date: ………………………………

Instructions to students:

1. Closed/Opened book examination: Opened books

2. Answers are to be written in the answer provided

3. Students are NOT permitted to retain this examination paper

This exam paper contains 2 sheets, including the cover.

LIST OF PROJECT TOPICS

No.	Name	Basic functions
1	Contact Management system	
2	Customer billing system	
3	Employee record system	
4	Hospital management system	
5	Phonebook application	
6	School billing system	
7	Student record system	- Add information
8	Telecom billing system	- Search information
9	Phonebook application	- Delete information
10	Library management	- Update information
11	Store management system - Book stores - Computer stores - etc.	
11	Cricket score sheet	
12	Medical store management system	

Instructions:

- **01** student per project

- Students have to write a short report to describe their work: Functionalities, algorithms, etc.

- Students **present** his/her project (MS PowerPoints) and answer questions

- All students must **submit** their work: source code, report file, and presentation file to Microsoft Teams **one day before exam date**.

- Copying code is strictly prohibited.

1. Project in C language

- Using Struct and File to store records

- The database has at least 20 records.

- The basic functions of system must have: Adding records, removing records, updating records and searching records.

- Students are expected to write the code into functions

- The interface should be friendly for the user

- Students are required to master programming skills for functions, arrays, file, etc.

2. Report

For the reports (using MS **Words**), students need to write:

1) Introduction

What is the project about?

Why do you choose this - specifying how important of the project?

What field or Whom your project can apply to?

2) Designing

To answer the question: How can you solve the problem or How can you build up the software?

Try your best to explain as clearly as you can

- Explain each module of your project

- The flowcharts for algorithms

3) Discussion

Think about the limitations of your program

How can you solve the limitations in the future work?

4) Conclusions

What you get from the project.

3. Presentation

- Summarizing your work using MS **PowerPoint**: What is your project; How you solve problems in your project; etc.

- Each student has 10 minutes to present and 5-10 minutes for Questions and Answers.

RUBRIC

Course: Programming I

Code: INS2020

No.	Criterion	Description	Weight
1	Source code	- Satisfying pre-conditions - Runnable - Able to use some basic algorithms to solve problem - Well structure	30%
2	Report	- Answer the questions as in the guidelines - Understandable - Well structure	20%
3	Presentation	- Present well	10%
4	Q&A	- Answer questions	40%
Total			100%