



ĐẠI HỌC QUỐC GIA HÀ NỘI  
TRƯỜNG QUỐC TẾ  
VNU-INTERNATIONAL SCHOOL

## MODULE SYLLABUS

### CAPSTONE PROJECT I

1. **Module code:** INS3281 (Compulsory  / Elective )

2. **Credit(s):** 3

3. **Prerequisite(s):** *None*

4. **Teaching language(s):** English

5. **Program:** Undergraduate, Major: Management Information System

**Faculty in charge:** Faculty of Applied Sciences

6. **Lecturers' information:**

No	Name	Title/Qualification	Email	Cell phone
1.	Truong Cong Doan	Dr.	<a href="mailto:doantc@vnuis.edu.vn">doantc@vnuis.edu.vn</a>	0902154359
2.	Nguyen Dinh Tran Long	MSc.	longndt.vnu@gmail.com	0902099232

7. **Module objectives:** (*general objectives, specific objectives: knowledge, skills, attitude*):

We are faced with problems related to information systems such as HRM, CRM, SCM, DCS. These problems are required analytical thinking, creativity and resourcefulness to solve. This module challenges students to explore different approaches to analyzing and solving problems in real-world business problem.

Specific objectives are that students will develop the software application for management information systems such as HRM, CRM, SCM, DCS, and others related to management

information systems. Moreover, students will develop the ability to apply analytics techniques to unfamiliar problems and present their investigation through the use of wide range of innovative Information Communication Technologies, including prototyping, cloud-based tools, report writing and presentations.

Students will use knowledge related to database system, web design, web programming, business analysis. All background knowledge will help students who finish real projects well.

About the skills and attitude, students are further improved their ability to think and identify real-world problems related to different kinds of business models, improve their self-study and teamwork ability.

### **8. Learning outcomes:**

By successful in this module, students will be able to:

#### **8.1. Knowledge**

<b>COURSE LEARNING OUTCOMES (CLO)</b>	<b>DETAILS</b>	<b>PROGRAM LEARNING OUTCOMES (PLO)</b>
CLO 1	UNDERSTAND business problems in an organizational context	PLO 3, 4
CLO2	IDENTIFY business problems in business information system	PLO 2, 3
CLO 3	UNDERSTAND various ICT tools and techniques related to software development	PLO 2, 3
CLO4	APPLY various ICT tools and techniques to solve business problems	PLO 2, 3
CLO 5	BUILD a solution to address an organization problem	PLO 2, 3
CLO 6	Evaluate the effectiveness and viability of an ICT solution from an organizational value perspective	PLO 2, 3

## 8.2. Skills

### *\* Professional skills*

<b>CLO</b>	<b>DETAILS</b>	<b>PLO fulfillment</b>
CLO 7	RECOGNIZE case studies of real-world business problems to explore and gain a broad understanding of a variety of information system.	PLO 6
CLO 8	DEMONSTRATE working effectively in a team environment.	PLO 9,10

### *\* Soft Skills*

<b>CLO</b>	<b>DETAILS</b>	<b>PLO fulfillment</b>
CLO 9	EXPLAIN the advantages and disadvantages of ICT technologies and their applicability in different real-world situations.	PLO 8

## 8.3. Level of Autonomy and Responsibility

<b>CLO</b>	<b>DETAILS</b>	<b>PLO fulfillment</b>
CLO 10	POSSEDE effective learning and self-learning skills	PLO 12
CLO 11	Actively ANALYZE the complexities of reality	PLO 14

## 9. Assessment methods

No.	Assessments (items and methods)	Proportion	Description	CLO fulfillment	PLO fulfillment
1	Class attendance	10 %	<p>- It is important for students to attend all classes and to be punctual.</p> <p>- Students who are 10 (or more) minutes late will be counted as “absent” for that class. Each unexcused absence results in a deduction of 1% in the 10% for attendance. Students who have a “zero” for “attendance” will not be allowed to take the final exam.</p>	1-5, 8	PLO 2-12
2	Mid-term exam	30%	<p>-Details on the mid-term exam will be announced by week 4</p> <p>-Group Presentation</p>	1-4	PLO 2-4, 8, 12
3	Final exam	60%	<p>-Students choose and complete a project to solve a problem related to management information system.</p> <p>-Group Presentation</p>	1-9	PLO 2-4, 8, 10, 12, 14
	<b>Total</b>	<b>100%</b>			

### *Scoring method:*

- Module evaluation scores are graded on a 10-point scale (from 0 to 10), rounded to 0.1
- The module score is the sum of three component scores multiplied by the respective proportion

## 10. Required textbook(s) and recommended books

### 10.1. Required textbook(s):

[1] Griffiths, Chris;Costi, Melina;Medlicott, Caragh; 2022- The Creative Thinking Handbook: Your Step-by-Step Guide to Problem Solving in Business, Publisher: Kogan Page; ISBN: 9781398607088

[2] Author(s): Jason Lengstorf, Thomas Blom Hansen, Steve Prettyman; PHP 8 for Absolute Beginners: Basic Website and Web Application Development; Publisher: Apress, Year: 2022; ISBN: 1484282043,9781484282045

### 10.2. Recommended text(s):

[1] *Phillip A. Laplante; Technical Writing: A Practical Guide for Engineers, Scientists, and Nontechnical Professionals, Second Edition (What Every Engineer Should Know); Publisher: CRC Press; 2nd edition (August 10, 2018); ISBN-10 : 1138628107*

## 11. Module description

In this course, students will contact and work directly with clients. Then, under the supervision of the lecturer, students manage to solve the problem by themselves. They also periodically update the progress, results, or any issues to the clients and the lecturers.

The main content covers the following topics:

Topic 1: Introduction to problem solving in management information system

Topic 2: How to collect requirements

Topic 3: Introduction to Project Management

Topic 4: Content Management Systems and hosting requirements

Topic 5: Introduction to prototyping of application

Topic 6: Deriving Business Value for business model

Topic 7: Design thinking IT Projects

Topic 8: Tuning and securing website for optimizing system

Topic 9: User experience design and the final solution

Topic 10: Writing report

Topic 11: Developing the User Guide Effective Presentations

Topic 12: Reflection and reviewing for final presentation

## 12. Course schedule

No.	Content	Forms of teaching			Total	Teaching methods	Reference	CLO fulfillment
		Theory teaching	Practice	Self-study with guidance				
1	Topic 1	1	4	5	3	Lecture, discussion	Required textbook [1]	1
2	Topic 2	1	4	5	6	Lecture, discussion	Required textbook [1]	1
3	Topic 3	1	4	5	6	Lecture, discussion	Required textbook [1]	2
4	Topic 4	1	4	5	6	Lecture, discussion	Required textbook [2]	2
5	Topic 5	1	4	5	6	Lecture, discussion	Required textbook [2]	3
6	Topic 6	1	4	5	6	Lecture, discussion	Required	4

No.	Content	Forms of teaching			Total	Teaching methods	Reference	CLO fulfillment
		Theory teaching	Practice	Self-study with guidance				
							textbook [2]	
7	Midterm	1	4	5	6	Presentation	Required textbook [1,2]	1-4
8	Topic 7	1	4	5	<b>10</b>	Lecture, discussion	Required textbook [2]	5
9	Topic 8	1	4	5	<b>10</b>	Lecture, discussion	Required textbook [2]	5
10	Topic 8	1	4	5	<b>10</b>	Lecture, discussion	Required textbook [2]	6
11	Topic 9	1	4	5	<b>10</b>	Lecture, discussion	Required textbook [2]	7
12	Topic 10	1	4	5	10	Lecture, discussion	Required textbook [2]	8
13	Topic 10	1	4	5	<b>10</b>	Lecture, discussion	Required	9

No.	Content	Forms of teaching			Total	Teaching methods	Reference	CLO fulfillment
		Theory teaching	Practice	Self-study with guidance				
						textbook [2]		
14	Topic 11	1	4	5	<b>10</b>	Lecture, discussion Required textbook [2]	10	
15	Topic 12	1	4	5	<b>10</b>	Lecture, discussion Required textbook [1,2]	11	
	<b>Total</b>	<b>15</b>	<b>60</b>	<b>75</b>	<b>150</b>			

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**Approved by**

**Compiler**

**Note:** One credit is equivalent to 50 learning hours including class visit hours, guided learning hours, self-study, research, experience and assessments; for teaching in the classrooms, one credit requires at least 15 lecture hours or 30 tutorial, experiment, discussion hours, one teaching hour in the classroom counts for 50 minutes.

According to the Academic Framework:

*Tutorial: Tutorial, experiment, discussion*

*Self-study: Assessed internship, research, self-study*