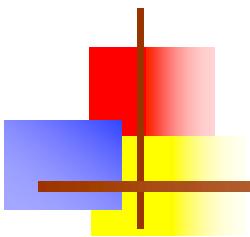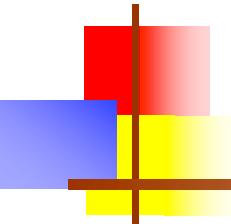ĐẠI HỌC TÔN ĐỨC THẮNG
TON DUC THANG UNIVERSITY

502071

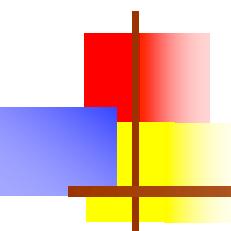# Cross-Platform Mobile Application Development
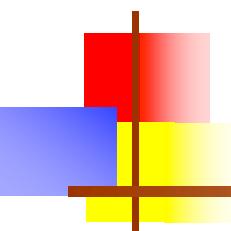
INTRODUCTION TO THE COURSE

General Information

- Course name: Cross-Platform Mobile Application Development

- Course code: 502071

- Number of credits: 3(2.1) – ECTS: 4.67

- Prerequisite: No

- Prior-Completion: No

- Name Of Lecturer(s): Mai Van Manh

- Department: Software Engineering

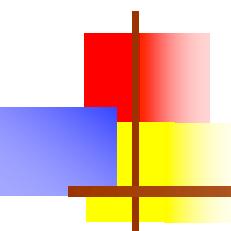- Faculty: Faculty of Information Technology

Course objectives

- Students master the concepts, design strategies, tool, APIs and programming language required to build, test, and develop advanced applications targeting multiple platforms.

- Students have the ability to use the built-in APIs and IDEs to build effective applications for multiple mobile platforms. Ability to design their own API.

- Students understand the fundamentals of the Flutter framework and are able to use Flutter's tools to enhance your development process.

- Students are trained in thinking skills and programming skills to solve problems professionally.
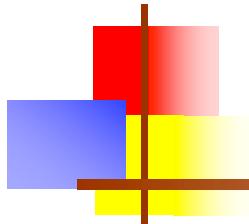
Brief course content

- The Dart programming language.

- Advanced concepts in mobile application development.

- Build beautiful, fast and native-quality mobile applications targeting multiple platforms with a single codebase.

- Tools and APIs for developing, testing, and deploying cross platform mobile applications.

Teaching materials

- [1]. Marco L. Napoli [2019], Beginning Flutter: A Hands On Guide To App Development, 1st Edition, Wrox Press.

- [2]. Eric Windmill [2019], Flutter in Action, 1st Edition, Manning Publications.

- [3]. Prajyot Mainkar, Salvatore Giordano [2019], Google Flutter Mobile Development Quick Start Guide, 1st Edition, Packt.

- [4]. Ivo Balbaert, Dzenan Ridjanovic [2015], Learning Dart, 2nd Edition, Packt.

- [5]. Gilad Bracha [2015], The Dart Programming Language, Addison-Wesley.

Description of Evaluation

Evaluation categories	Weight (%)	Types of questions	CLOs (Recorded as [1], [2], ...)
Process evaluation 1	10	Process Exercise	[1], [2]
Process evaluation 2	20	Process Exercise	[1], [2], [3]
Mid-term test	20	Essay	[3], [4], [5]
Final examination	50	Report	[3], [4], [5]