

# MOBILE APPLICATION DEVELOPMENT USING FLUTTER

## PART I



COMPUTER LAB, SOUTHERN  
UNIVERSITY COLLEGE



HRD CORP CLAIMABLE COURSE,  
MBOT CPD PROGRAM

\*\* Breakfast, lunch and tea break provided



### Ms Nur Shamilla Selamat

- Lecturer, Faculty of Engineering & Information Technology, Southern University College
- MPhil (Computer Science)
- Oracle Database Administrator Certified Associate
- Microsoft Certified: Azure AI Fundamentals
- HRD Corp Accredited Trainer (ID: 27264)

**SC Education Management Sdn. Bhd (709132K)**

Kolej Universiti Selatan DKU 019 (J) (198704V)  
PTD 64888, Jalan Selatan Utama, KM 15,  
Off Jalan Skudai, 81300 Skudai, Johor, Malaysia.





# FLUTTER

## 移动应用程序开发 第一部分



南方大学学院电脑室



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MBOT CPD PROGRAM

\*\* 提供早餐，午餐和茶点



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# COURSE OUTLINE

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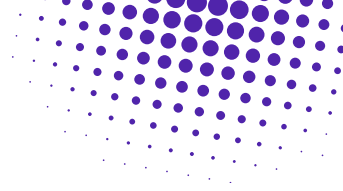
1. Design visually appealing and interactive user interfaces (UI) by leveraging a wide range of Flutter widgets.
2. Utilize state management techniques in Flutter to ensure the app's UI adapts dynamically to user interactions and data changes.



# LEARNING OUTCOME

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1. Identify the various Flutter widgets for visually appealing and interactive UI design.
2. Implement stateless and stateful widgets to develop a dynamic mobile app.



# AGENDA

## PART 1 - APPLYING UI AND STATE MANAGEMENT

Day 1	
9.30 am – 12.30 pm	<ul style="list-style-type: none"><li>• Ice breaker</li><li>• A brief course introduction</li></ul> Module 1: Introduction to Development with Flutter
12.30 pm - 1.30 pm	Lunch Break
1.30 pm – 5.00 pm	Module 2: Creating Beautiful UI with Flutter
5.00 pm – 5.30 pm	Q & A
End of Part 1-Day 1	

Day 2	
9.30 am – 12.30 pm	Module 3: Building Apps with Stateless and Stateful Widgets
12.30 pm - 1.30 pm	Lunch Break
1.30 pm – 5.00 pm	Module 4: Leveraging Flutter Packages to Speed Up Development
5.00 pm – 5.30 pm	Q & A
End of Part 1-Day 2	



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# FLUTTER

## 移动应用程序开发 第二部分



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# COURSE OUTLINE

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1. Integrate third-party packages and APIs to extend the app's capabilities.
2. Use Firebase in Flutter projects to implement user authentication and data storage functionalities.



# LEARNING OUTCOME

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1. Develop a complete, multi-screen Flutter App that integrates UI components, state management, packages and cloud storage services



# AGENDA

## PART 2 - INTEGRATING API AND GOOGLE CLOUD FIRESTORE

Day 1	
9.30 am – 12.30 pm	Module 5: Powering Flutter Apps with Application Programming Interfaces
12.30 pm - 1.30 pm	Lunch Break
1.30 pm – 5.00 pm	Continue of Module 5: Powering Flutter Apps with Artificial Intelligence
5.00 pm – 5.30 pm	Q & A
End of Part 2-Day 1	

Day 2	
9.30 am – 12.30 pm	Module 6: Integrating Flutter Apps with Firebase
12.30 pm - 1.30 pm	Lunch Break
1.30 pm – 5.00 pm	Continue of Module 6
5.00 pm – 5.30 pm	Q & A
End of Part 2-Day 2	