

# Faculty of Sciences and Engineering

## Associate of Science in Mobile Application Development (A.Sc. in MAD)

### I. Why Choose this Program?

The Associate of Science in Mobile Application Development (A.Sc. in MAD) program was designed to:

- Build Practical Mobile Development Skills
- Gain Hands-on Project Experience
- Learn Modern Mobile Technologies
- Prepare for Immediate Employment
- Create a Strong Foundation for Career Growth

### II. Future Career Prospects

Graduates from this program will be able to pursue careers such as:

1. Mobile Application Developer
2. Cross-Platform App Developer
3. UI/UX Designer for Mobile Applications
4. Mobile Application Tester (QA Engineer)
5. Junior Software Developer
6. Freelance Mobile App Developer or Entrepreneur

### III. Course Structure

The two-year program comprises **61 credits** and includes foundation courses, functional courses, and a comprehensive examination. Students must complete the following coursework requirements to graduate:

| YEAR 1                                              |         |          |
|-----------------------------------------------------|---------|----------|
| Course Title                                        | Credits | Priority |
| English I: Reading and Composition with Laboratory  | 4       | Required |
| Gender Studies                                      | 3       | Required |
| Khmer Studies                                       | 3       | Required |
| Digital Literacy + Lab                              | 4       | Required |
| English II: Reading and Composition with Laboratory | 4       | Required |
| History of Cambodia                                 | 4       | Required |

|                                   |                |                 |
|-----------------------------------|----------------|-----------------|
| Environmental Science             | 3              | Required        |
| Introduction to Political Science | 3              | Required        |
| <b>YEAR 2</b>                     |                |                 |
| <b>Course Title</b>               | <b>Credits</b> | <b>Priority</b> |
| Python Programming                | 3              | Required        |
| Multimedia and Web Design         | 3              | Required        |
| Data Structure and Algorithms     | 3              | Required        |
| Database Design                   | 3              | Required        |
| Object-Oriented Programming       | 3              | Required        |
| Cloud Computing                   | 3              | Required        |
| UI/UX Design                      | 3              | Required        |
| Mobile Application Development    | 3              | Required        |
| Data Analysis and Virtualization  | 3              | Required        |
| Software Engineering              | 3              | Required        |
| <b>GRADUATION PATH</b>            |                |                 |
| Comprehensive Exam                | 3              | Required        |