



L'excellence à la portée de tous !

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## Syllabus

**Course Name**

**SOFTWARE DEVELOPMENT**

- I. **Objectives :** Mastery of software development for Desktop and Web Applications.
  
- II. **Prerequisites :**
  - Programming skills.
  - Recommended courses: "Base de Données" (Database) and "Programmation Fondamentale" (Fundamental Programming) in Java, C#, or Python.
  
- III. **Course Materials :**
  - PDF manuals provided to students at the beginning of the class.
  
- IV. **Course Content :**
  - Information gathering and specifications.
  - Preliminary study (feasibility).
  
- V. **Design :**
  - Software Mock-Up.
  - Software UML (Unified Modeling Language) using tools like Cruise Umple or GitHub.
  - Validation (Steps may vary based on literature)..

## **VI. Implementation Phase (Programming and Testing) :**

- Algorithm design.
- Coding and programming.
- Version control.
- Unit testing.
- Code optimization.
- Delivery phase.
- Software documentation and packaging.

## **VII. Evolution and Maintenance :**

- Software maintenance and updates.