

## Skills :



### **BTS SIO 1era year :**

#### **SYSTEM :**

- Windows and Linux operating systems
- Administration of an operating system (security, backup, ...)
- Implementation of virtualization

#### **NETWORK :**

- Knowledge of network equipment
- Addressing a network
- Network services (DNS, DHCP, Web, Database)

#### **DATABASE :**

- Design of a relational logic database diagram
- SQL language
- Operation of a SQL Server, MySQL database

#### **WEB DEVELOPMENT :**

- Web site creation languages: HTML, CSS, JavaScript, JQuery, PHP
- CSS Framework: BootStrap
- Database management system: MySQL, SQL Server

#### **ANALYSIS AND OPERATION OF A DATABASE :**

- Data models (Conceptual, relational, physical models)
- Modeling software (AGL Win'design)
- Data access with C #

#### **OBJECT PROGRAMMING :**

- Class design
- Object applications in PHP, Java, C #

- MVC model (Model, View, Controller)

## **ENVIRONMENT :**

- IDE: NetBeans, Eclipse, Visual Studio and Visual Studio Code
- Methodology: Merise, UML, AGILE (SCRUM)
- Servers: WampServer, EasyPHP, SQL Server

## **CYBERSECURITY :**

- Protect personal data
- Preserve the digital identity of the organization
- Secure user equipment and uses
- Guarantee the availability, integrity and confidentiality of services



## BTS SIO 2nd year :

The teachings and projects in the 2nd year resume and deepen:

- Computerization methodologies.
- Database programming.
- Methodology and object development.

### **CLIENT SERVER :**

- Advanced data modeling
- Client / server programming (triggers, stored procedures, functions, cursors, transactions) with SQL Server
- Interface and data access: Laravel Framework

### **WEB SERVICES :**

- Description of services
- Programming of service methods
- Programming of method calls

### **MOBILE DEVELOPMENT :**

- Mobile programming: Android under Java
- Development environment: Eclipse Android, Android Studio
- Access to local data: SQLite

### **ORGANISATION ET GESTION :**

- Documentation : cahier des charges, dossier technique, guide utilisateur
- Gestion de projets et gestion d'entreprise
- Qualité logicielle : règles de développement
- Gestion des tests
- Gestionnaire de parcs informatiques (GLPI)

- Gestion des configurations et des incidents
- Veille technologique

## **CYBERSECURITY :**

- Ensure the cybersecurity of the development of an application
- Ensure the cybersecurity of an application solution