

## **II.23 WEB Development Project**

ECTS: 8 credits

Classroom sessions : 75-90 hours

Estimated workload : 200 hours

### **Content :**

- Database management system: object and relational models, data scheme, queries
- Software engineering
- Architecture for the WEB: client, server, third party, distributed communication protocols
- HMI: ergonomics, dynamic content generation, formatting

### ***Tools used by the learner***

At the end of the module, learners will have learned to use the following tools / technologies:

- A project planning tool (eg MS Project)
- A graphic modeling tool (eg Balsamiq)
- A graphical modeling language to visualize the design of a system (UML)
- A PHP development environment (eg Net Beans and Storm)
- A web server (Apache Tomcat) and a database management system (MySQL)
- Create and query a database using PhPMyadmin and SQL
- Build a dynamic web application using HTML, CSS, JS client side and PHP server side