# SIBD

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# Learning Outcomes

After completing this course you should be able to:

- Design a **relational database**
- Make **SQL** queries to relational databases
- Create and validate **HTML 5** documents
- Layout HTML 5 documents using **CSS**
- Create a dinamic **web application** using PHP and relational databases

# Course Content

- Entity Relationship Model
- Relational Model
- Relational Algebra
- Database creation using SQL
- Querying Databases using SQL
- Document Specification using HTML 5
- Document Presentation using CSS
- Dynamic Websites using PHP, HTML, CSS and SQL

# Main Bibliography


- Michal Zalewski; The tangled Web. ISBN: 978-1-59327-388-0
- Jakob Nielsen; Designing web usability. ISBN: 1-56205-810-X
- Jeffrey D. Ullman, Jennifer Widom; A First Course in Database Systems. ISBN: 0-13-8687647-9
- Provided Slides
- Lots of Web resources and tutorials!

# Evaluation

- To obtain frequency, students may not exceed the maximum number allowed of missed classes. Attendance will be registered in practice sessions.
- It is necessary to obtain a minimum of **8 (out of 20)** in both the exam and the distributed evaluation component.
- Distributed evaluation referes to the implementation of a information system project.
- Final mark = 0.5 *Exam + 0.5* Project