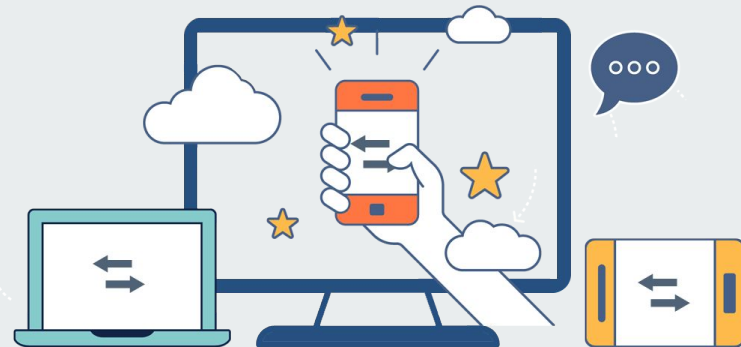# Web Application Design
(Conception d'Application Web)

Biography & Contact

Adil CHEKATI, PhD

- Assistant Professor "Class B"
  @ Abdelhamid Mehri University
  Constantine 2
  # Department of Fundamental Computer
  Science and Applications - IFA

- Permanent Researcher
  @ MISC Laboratory

- PhD in Computer Science (IoT)
  @ University of Tunis ElManar

adil.chekati@univ-constantine2.dz

*The email should be **concrete** and clear. The subject of the e-mail must be specified.*

I undertake to reply by email within 48 hours of receiving the message (except in the case of unforeseen circumstances).

NTIC Faculty

Course information

➔ Number of weeks: **14 weeks**

➔ Number of hours per semester: **42 hours**

➔ Credits: **5**

➔ Coefficient: **4**

➔ Weekly timetable:

◆ *Lecture* *1h30*

◆ *Hands-on workshop* *1h30*

Target audience

➔   1st year Master's students (M1)

➔   Specialization: Information and Communication
     Sciences and Technologies - STIC

Objectives

➔ Understand the core web technologies, including HTML, CSS, and JavaScript, and their roles in web development.

➔ Apply advanced JavaScript concepts, including ES6 to design the frontend of an adaptive web application.

➔ Comprehend the React framework in order to structure the front end of a single-page web application with ReactJS.

➔ Implement React lifecycle methods and make informed decisions about component behavior and optimization.

➔ Get-ready to the back-end development.

Prerequisites

- ❏   HTML, CSS & JavaScript skills

- ❏   DAW1 second-year course

- ❏   DAW2 L3-TI course

Course outlines

This course introduces the basic concepts needed to design fullstack web applications, with an emphasis on the front-end, concerned with presentation and user interface.

The course will introduce a JavaScript-based front-end framework from among : ReactJS, VueJS or AngularJS.

The hands-on workshops will put these concepts into practice.

Course schedule

| Chapter # weeks	
Chapter 1 - HTML- CSS - Javascript web technologies	(02)
Chapter2 - Advanced JavaScript concepts	(02)
Chapter3 - Introduction to the React framework	(01)
Chapter4 - Front end React development	(03)
Chapter5 - React lifecycle methods	(01 to 02)
Chapter6 - React router	(02 to 03)
Total	**11 to 13**

Workshop schedule

Worksops # weeks	
HTML, CSS, JavaScript review	(02)
Training on various web tools	(02)
Introduction to NodeJS and NPM	(01)
Develop with Create-React-App	(03)
Single-page application in React	(01 to 02)
Synthesis project	(02 to 03)
Total	**11 to 13**

Evaluation

● Final Exam   ● Workshop test& Attendancy
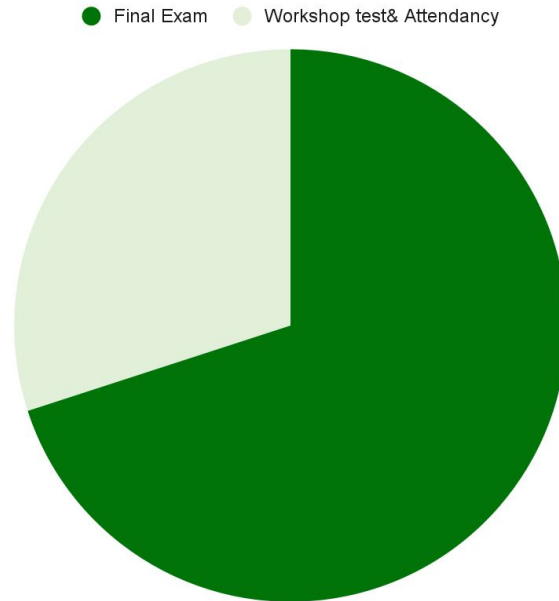
*The student's performance during the semester will be evaluated on the basis of **his or her results** in the various assessments (Exam, workshops tests).*

***Attendance and participation** in hands-on sessions will also be taken into account.*

Course policy

➜ **Continuous evaluation** during hands-on workshops.
➜ The final exam will be **a synthesis test** (covering all chapters of the course).
➜ The mode of workshop test (written exam or practical) will be determined according to the progress of workshops.

Lab Exercises Submission Guidelines

➔ **Deadline:**
At the end of each Lab session (no later than Saturday at 23:59)
To: adil.chekati@univ-constantine2.dz

➔ **File's Name to be submitted:**
CAW_Lab%_Gr%_NAMEPair1_NAMEPair2.zip
Example : "CAW_Lab1.part1_Gr1_CHEKATI_BOUZENADA.zip"

Textbook

➔ All academic materials will be available on:

Google Drive.
E-learning platform of Constantine 2 University.

Questions,
& comments...

📧 adil.chekati@univ-constatine2.dz