ENSET
ECOLE NORMALE SUPÉRIEURE DE L'ENSEIGNEMENT TECHNIQUE DE MOHAMMEDIA
UNIVERSITÉ HASSAN II DE CASABLANCA

IT Engineering degree course: Big Data and Cloud Computing (FI-IIBDCC)

Mathematics and Computer Science Department
COORDINATOR OF THE PROGRAM
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CAREER OPPORTUNITIES AND INTEGRATION

Target professions:

Design Engineer, Software Engineer, Software Architect, Project Manager, Developer Engineer, Systems and Networks Engineer, Systems Administrator, Information Systems Developer Engineer, Information Systems Administrator Engineer, Information Systems Architect Engineer, Application and Data Server Administrator Engineer, Chief Data Officer, Business Intelligence Manager, Data Scientist, Data Analyst, Data Miner, Master Data Manager, Data Protection Officer, Cloud Broker, Cloud architect, System Administrator, QA Engineer, DEVOPS Engineer, Software Quality Engineer, IT Security Engineer, Consultant, Teacher, Researcher, ...

Sector :

- **Public sector :**

Ministries, public administrations, higher education establishments, etc.
- Semi-public sector :
Offices, Regies, ...

- **Private sector :**

Software publishers, Design and Consultancy firms, Offshore companies, Telecoms operators, Banks, Insurance companies, Industries, IT solutions design and development companies, IT services and engineering companies (SSII), Business intelligence systems design and development companies, Cloud platform operators, Big Data platform operators.

OBJECTIVES OF THE PROGRAM

The "Computer Engineering, Big Data and Cloud Computing" programme aims to :

- Train generalist, multi-skilled computer engineers who develop a range of skills in various areas of Information and Communication Technology (ICT),
- Train a profile capable of meeting the needs of companies using and operating in the fields of ICT and Software Engineering in general and Big Data and Cloud Computing in particular.

SKILLS ACQUIRED ON COMPLETION OF THE PROGRAM

- Analyse all types of IT problems,
- Design and develop an information system,
- Administer and secure an information system,
- Design and deploy IT infrastructure architectures.
- Designing, developing and deploying Web and mobile applications.
- Designing and developing service-oriented architectures,
- Implementing architecture virtualisation,
- Implementing Cloud architecture,
- Designing and implementing a Big Data management ingestion infrastructure,
- Designing and implementing a Big data processing strategy,
- Analyse the data in an information system to support decision-making,
- Developing a dashboard for modern information systems,
- Developing and implementing information systems governance tools,
- Aligning an IT strategy with a company's business strategy.

ACCESS CONDITIONS :

- 2 Preparatory Years for the Engineering Cycle (Speciality: Sciences and Techniques)
- DEUG; Specialisation: Mathematics or Computer Science or Physics
- DEUP; Speciality: Mathematics or Computer Science or Physics
- DEUST; speciality: Mathematics or Computer Science or Physics
- DUT ; Speciality: Computer Science
- DTS ; Speciality: computer science
- BTS ; speciality: computing