Program Hightlights

Program Name:\* Electrical Grid Networks

Program URL :http://www2.univ-oeb.dz/fssa/responsable-de-specialite-ge/

Department:



Degree Name\* :



Study Level\* :



Course Intensity\* :



Study Mode\* :



MBA Program Type :



## Program Details

Broad Subject Area\* :



Main Subject\* :



Custom Subject :



Specialization :



Program Description:

Electrical energy plays a key role in the economic development of any country. It is inevitably vital for the functioning of all the mechanisms that govern the different social dynamics. Without electricity for 24 hours is the worst-case scenario for an industrialized country.

Actually, electrical engineering, in all its dimensions (production, transport, distribution, conversion and control) has occupied a primordial place in the industrial sector of the countries and continues to be the subject of particular attention, scientific investment and continuous technological improvement.

Electrical engineering keep gaining for several decades in all industrial and domestic fields. This trend has only been reinforced in recent years, thanks to progress in power electronics, microprocessors and programmable logic controllers (PLC). In effect, controlling the operation of electrical engineering systems and processes with precision while minimizing the energy consumed is currently possible thanks to power electronic interfaces and advanced control techniques that perform real-time processing by means of microprocessors (and PLC) ever more powerful.

On another note, the optimization of electrical engineering systems and the improvement of their performance is a key issue for the sector thanks to the application of sustainable development concepts by reducing their weight and using recyclable materials. All these major technological developments recorded in recent years have increased the needs of industrial companies in terms of skills in the field of electrical engineering. Investing in training and preparing managers to meet these challenges becomes trivial. It is in this spirit that this training is offered. The training is structured in 4semesters that are structured as follows:

The first semester contains five fundamental units, five methodological units, two-discovery units, and one transverse unit.

The second semester contains five fundamental units, fourmethodological units, two-discovery units, and one transverse unit.

The third semester contains five fundamental units, threemethodological units, two-discovery units, and one transverse unit.

The last semester deals with an internship in a company in the field of the master’s degree, a preparation of a final project with a thesis defense.

University Official Website :http://www.univ-oeb.dz/fr/

Get more details (email) :[djouambi\_abdelbaki@yahoo.fr](mailto:djouambi_abdelbaki@yahoo.fr" \t "_blank)

Duration Unit :2 years

Duration Type :



Start Month(s) :





Application Deadline :







Fees Currency :



Price Information :الاشارة هنا إلى أن التعليم مجاني إضافة إلى الايواء والاطعام والنقل ويستفيد الطلبة من منحة إضافية

Entry Requirements

Exam Type:



Entry Requirements (Other) :

Example: The minimum baccalaureate rates accepted at Algerian universities are used to establish the rate at which a student must have earned their degree in order to enter the program.

483 words remaining Maximum 512 words

Min Total Tuition Fees (Domestic) : 0

Max Total Tuition Fees (Domestic) : 0

Min Total Tuition Fees (Domestic, In State) : 0

Max Total Tuition Fees (Domestic, In State) : 0

Min Total Tuition Fees (Domestic, Out of State) : 0

Max Total Tuition Fees (Domestic, Out of State) : 0

Min Total Tuition Fees (International) : 0

Max Total Tuition Fees (International) : 0

Minimum Professional Experience (in years) :

Financial Aid

Is there a school sponsored scholarship or financial aid?

  Yes   No

Annual school budget for all scholarships : ……..

Currency :



Scholarship Information :الاشارة هنا إلى أن التعليم مجاني إضافة إلى الايواء والاطعام والنقل ويستفيد الطلبة من منحة إضافية

Program Statistics

Students per Class : 30

Average age (in years) : 23

Average years of work experience at managerial level :

Percentage of international students :1%

Percentage of women :40 %

Average GMAT score for your cohort :

Average salary after graduation : …………………………………….



Percent employment after graduation : …………… %

Program accreditations :



Average work experience (in years) :

Number of nationalities in current cohort :

PROGRAM OF ACADEMIC MASTER

Speciality: Electricity networks

*Semester 1*

|  |  |
| --- | --- |
| Teaching unit | Title of the Subject |
| Fundamentalteaching unit | Electrical power transmission and distribution networks |
| Advanced power electronics  µ-processors and µ-controllers |
| Advanced electrical machines |
| Applied numerical methods and optimisation |
| Methodologyteaching unit | Practical work: - µ-processors and µ-controllers |
| TP Practical training : - Advanced power electronics |
| TP Applied numerical methods and optimisation |
| TP Advanced electrical machines |
| TP - Electrical power transmission and distribution networks |
| Discoveryteaching unit | Chosen course |
| Chosen course |
| Transversal teaching unit | Technical English and terminology |

*Semester 2*

|  |  |
| --- | --- |
| Teaching unit | Title of the Subject |
| Fundamentalteaching unit | Power system modelling |
| High voltage techniques |
| Electromagnetic compatibility |
| Power system planning |
| Methodologyteaching unit | Control of electrical energy systems |
| Centralized and decentralized generation |
| Practical training: - Modelling of electrical networks |
| TP: - High Voltage Techniques |
| TP: - Control of Electrical Energy Systems |
| Discoveryteaching unit | Quality of electricalenergy |
| Transversal teaching unit | Choose a subject from :  - Industrial Safety and Clearance  - Communication and project management,  - Standards and legislation in electrical engineering |

*Semester 3*

|  |  |
| --- | --- |
| Teaching unit | Title of the Subject |
| Fundamentalteaching unit | Power system protection techniques |
| Stability and dynamics of electrical networks |
| Smart grids |
| Integration of Renewable Resources intoElectrical Networks |
| Sizing of Industrial Power Systems |
| Methodologyteaching unit | Control of electrical networks |
| TP Techniques for the protection of electrical networks |
| TP Stability and Dynamics of Electrical Networks |
| TP Sizing of Industrial Electrical Networks |
| Discoveryteaching unit | Chosen course |
| Chosen course |
| Transversal teaching unit | Searching documentation conception of writing thesis |