

PEOPLE'S DEMOCRATIC REPUBLIC OF ALGERIA

MINISTRY OF HIGHER EDUCATION AND
SCIENTIFIC RESEARCH

TRAINING OFFER PROFESSIONAL LICENSE

عرض تكوين
ليسانس مهنية

Establishment	Faculty / Institute	Department
Mohamed KHIDER University - Biskra	Science and Technology	Architecture

Domain	Sector	Speciality
Architecture, Urban Planning and City Professions, AUMV	City professions	Operational Conduct of Projects

Academic year: 2020/2021

الجمهورية الجزائرية الديمقراطية الشعبية
وزارة التعليم العالي والبحث العلمي

عرض تكوين
ليسانس مهنية

القسم	الكلية/المعهد	المؤسسة
الهندسة المعمارية	العلوم والتكنولوجيا	جامعة محمد خيضر - بسكرة

التخصص	الشعبة	الميدان
قيادة عملياتية للمشاريع	مهن المدينة	هندسة معمارية، عمران ومهن المدينة

السنة الجامعية: 2021/2020

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I – License identity sheet

1 - Location of the training:

University	Mohamed KHIDER University - Biskra
Faculty	Science and Technology
Department	Architecture

2- Possible external partners:

- Businesses and other socio-economic partners:

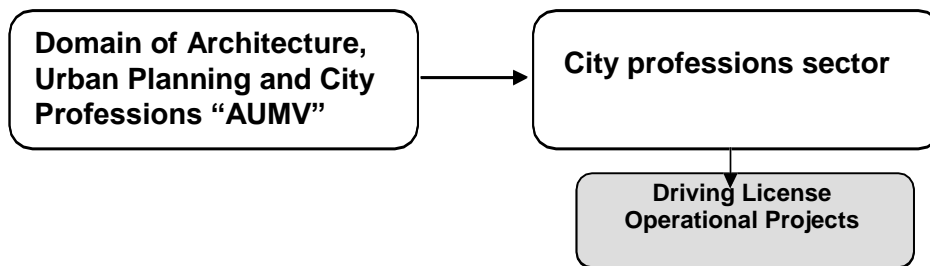
- Directorate of Housing DL
- Department of Public Facilities DEP
- Directorate of Public Works DTP
- OPGI Real Estate Promotion and Management Office
- Department of Urban Planning and Architecture and Construction DUAC
- URBACO
- Local authorities – APW, APC, ...
- Town planning agencies - Design offices -
- Construction companies - Real estate developers.

See Appendices

3 – Context and objectives of the training

Developments in the world of construction, socio-economic context, technologies, knowledge, know-how and skills have had as a corollary changes in the division of labor for the organization of construction and project management, developments, themselves , corresponding to a transfer of skills from the architect, his agency or engineers to companies and to new professional profiles in the coordination and management of projects, whether architectural or urban, so as not to be restricted to the construction site. These professionals do not perform a direct technical function and do not compete with other professionals.

A – General organization of training: project position



B - Training objectives

However, the training of project managers is an issue of the utmost importance. In a world open to trade, the competitiveness of companies relies largely on the capacity to adapt and the strategy of good management of its resources.

Management today not only conditions access to business and entrepreneurship. It determines for each company the possibility of remaining in this sector through the continuous adaptation of knowledge and know-how to the rhythm of the evolution of technical progress.

It thus asserts itself as the major instrument for the sustainability of businesses in a context of accelerating economic change.

Operational project management, a very important phase for management and project management training, remains that it is limited by the level of knowledge and the duration of the training, accentuated more towards construction projects and their operational management. The COP graduate must be able to analyze and master internal tensions, sources of competitive advantages and the issues and challenges of the project, prepared in three years, a professionalized license which allows graduates to integrate the job market with full involvement and

impregnation in the field of carrying out construction projects, while applying the knowledge acquired during the course.

The training targets the professional profile of project pilot. This carries out a complementary function of multiple coordination of management of work teams, action planning, animation and control. The training program was designed on the basis of the national program for the training of architects with the aim of maintaining common training elements to guarantee a common professional culture which would facilitate professional relationships and interactions, while developing professional specificity. of the targeted profile. Essentially the legal and legislative, economic, management aspects, the nine areas of management, quality culture and optimization, planning, scheduling, economics, value analysis, quality tools.

In terms of skills, the objectives are:

- Professional profile ;
- Response to the needs of the socio-economic market / building sector;
- Adaptation to the labor market: conditions of construction sites, companies and construction projects;
- Reduction of the gap between the educational establishment, a place of disciplinary reflection and the exercise of the profession;
- Occupational integration ;

C – Profiles and targeted skills:

Targeted skills :

Mastery:

- coordination of work teams;
- action planning;
- some work control and monitoring missions;
- animation;
- decision-making support: planning cells,
- risk management,
- deadline management, etc.;

To have :

- communication skills,
- negotiation skills;
- thereability to anticipate and predict facts

Targeted professions:

- Audit and consulting firm consultant.
- Planner;
- Project Manager

- project manager, project manager;
- Coordinator;
- Work supervisor ;
- Quality manager;
- Project owner and project management assistant;
- Construction technical sales;
- Work and quality controller;
- Site/operational unit director;
- Real estate developer;
- Work coordinator;
- Entrepreneur ;

D - Regional and national employability potential

The training ensures great potential in high demand for field work such as construction work, as well as the monitoring and management of projects of all kinds. On a regional scale, with the expansion of activities in the building and construction sector, the multiplication of infrastructure and residential projects in the wilaya of Biskra, generate a strong need for qualified management of construction sites, administrations , and collaboration between different state and private construction companies, while ensuring the smooth running of the work and excellent quality of project monitoring. Biskra, is counting on the potential of the new training, in order to promote the vital environment throughout the territory of the wilaya of Zibans.

E – Training project monitoring indicators

- The quality assurance unit of the faculty;
- The scientific council of the CSF faculty;
- The Pedagogical Committees (CP);
- Theses and end-of-study projects.
- Internship reports
- Portfolios.
- Continuous evaluation
- Traceability of graduates,
- Career management/employability;
- The graduate monitoring unit;
- Visibility of the training via social networks.

4 – Human resources available

A: Supervisory capacity:

The supervision capacities make it possible to accommodate 180 undergraduate students, namely:


- ✓ 60 first year undergraduate students
- ✓ 60 second year undergraduate students
- ✓ 60 third year undergraduate students




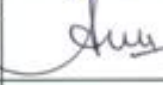
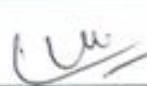



B: Training management team:






B-1 : Equipe pédagogique interne mobilisée pour la spécialité :

Nom, prénom	Diplôme graduation	Diplôme de spécialité (Magister, doctorat)	Grade	Type d'intervention	Emargement
Zemmouri Nouredine	Architecte d'Etat	Doctorat d'Etat	Professeur	Cours théorique + Encadrement	
Belakehal Azeddine	Architecte d'Etat	Doctorat en Sciences + Habilitation Universitaire	Professeur	Cours théorique + Encadrement	
Farhi Abdallah	Architecte d'Etat	Doctorat d'Etat	Professeur	Cours théorique + Encadrement	
Benabbas Moussadek	Architecte d'Etat	Doctorat d'Etat	Professeur	Cours théorique + Encadrement	
Bada Yacine	Architecte d'Etat	Doctorat d'Etat	Professeur	Cours théorique + Encadrement	
Bouzaher Soumia	Architecte d'Etat	Doctorat en Sciences + Habilitation Universitaire	Maître de Conférences 'A'	Cours théorique + Encadrement	
Slatenia Khaled	Architecte d'Etat	Doctorat en Sciences + Habilitation Universitaire	Maître de Conférences 'A'	Cours théorique + Encadrement	
Sriti leila	Architecte d'Etat	Doctorat en Sciences + Habilitation Universitaire	Maître de Conférences 'A'	Cours théorique + Encadrement	
Sekhri Adel	Architecte d'Etat	Doctorat en Sciences	Maître de Conférences 'B'	Cours théorique + TD + Encadrement	
Boukhabla Moufida	Architecte d'Etat	Doctorat en Sciences	Maître de Conférences 'B'	Cours théorique + TD + Encadrement	
Merad Yacine	Architecte d'Etat	Doctorat en Sciences	Maître de Conférences 'B'	Cours théorique + TD + Encadrement	
Msellem Houda	Architecte d'Etat	Doctorat en Sciences	Maître de Conférences 'B'	Cours théorique + TD + Encadrement	
Mezerdi Toufik	Architecte d'Etat	Doctorat en Sciences	Maître de Conférences 'B'	Cours théorique + TD + Encadrement	
Qaoud Rami	Architecte d'Etat	Doctorat en Sciences	Maître de Conférences 'B'	Cours théorique + TD + Encadrement	
Berkouk Djihad	Master Architecture	Doctorat L.M.D	Maître de Conférences 'B'	Cours théorique + TD + Encadrement	

Nom, prénom	Diplôme graduation	Diplôme de spécialité (Magister, doctorat)	Grade	Type d'intervention	Emargement
Daich safa	Architecte d'Etat	Doctorat en Sciences	Maître de Conférences 'B'	Cours théorique + TD + Encadrement	
Dakhia Azzedine	Architecte d'Etat	Doctorat en Sciences	Maître de Conférences 'B'	Cours théorique + TD + Encadrement	
Madhoui Meriem	Architecte d'Etat	Doctorat en Sciences	Maître de Conférences 'B'	Cours théorique + TD + Encadrement	
Saadi Mohamed yacine	Architecte d'Etat	Doctorat en Sciences	Maître de Conférences 'B'	Cours théorique + TD + Encadrement	
Tayeb Keltoum	Architecte d'Etat	Doctorat en Sciences	Maître de Conférences 'B'	Cours théorique + TD + Encadrement	
Aboudil Rachida	Architecte d'Etat	Magister	Maître Assistant 'A'	Cours théorique + TD + Encadrement	
Alouane Fayçal	Architecte d'Etat	Magister	Maître Assistant 'A'	Cours théorique + TD + Encadrement	
Beddiaf Walid	Architecte d'Etat	Magister	Maître Assistant 'A'	Cours théorique + TD + Encadrement	
Benaissa Nadjette	Architecte d'Etat	Magister	Maître Assistant 'A'	Cours théorique + TD + Encadrement	
Benferhat Mohamed Ladaoui	Architecte d'Etat	Magister	Maître Assistant 'A'	Cours théorique + TD + Encadrement	
Bouhlas Lakhdar	Architecte d'Etat	Magister	Maître Assistant 'A'	Cours théorique + TD + Encadrement	
Boumerzoug Abdelouahab	Architecte d'Etat	Magister	Maître Assistant 'A'	Cours théorique + TD + Encadrement	
Dali Aomar	Architecte d'Etat	Magister	Maître Assistant 'A'	Cours théorique + TD + Encadrement	
Djebnour Rachid	Architecte d'Etat	Magister	Maître Assistant 'A'	Cours théorique + TD + Encadrement	
Djenane Moussadek	Architecte d'Etat	Magister	Maître Assistant 'A'	Cours théorique + TD + Encadrement	

Nom, prénom	Diplôme graduation	Diplôme de spécialité (Magister, doctorat)	Grade	Type d'intervention	Emargement
Gouizi Yamina	Architecte d'Etat	Magister	Maître Assistant 'A'	Cours théorique + TD + Encadrement	
Hafsi Mustapha	Architecte d'Etat	Magister	Maître Assistant 'A'	Cours théorique + TD + Encadrement	
Hamel Khalissa	Architecte d'Etat	Magister	Maître Assistant 'A'	Cours théorique + TD + Encadrement	
Karkar Houria	Architecte d'Etat	Magister	Maître Assistant 'A'	Cours théorique + TD + Encadrement	
Laouni Ines	Architecte d'Etat	Magister	Maître Assistant 'A'	Cours théorique + TD + Encadrement	
Femmam Nadia	Architecte d'Etat	Magister	Maître Assistant 'A'	Cours théorique + TD + Encadrement	
Magri Ouadjeri Sahar	Architecte d'Etat	Magister	Maître Assistant 'A'	Cours théorique + TD + Encadrement	
Mahaya Chafik	Architecte d'Etat	Magister	Maître Assistant 'A'	Cours théorique + TD + Encadrement	
Makhloufi Soumia	Architecte d'Etat	Magister	Maître Assistant 'A'	Cours théorique + TD + Encadrement	
Medouki mostefa	Architecte d'Etat	Magister	Maître Assistant 'A'	Cours théorique + TD + Encadrement	
Meliouh Fouzia	Architecte d'Etat	Magister	Maître Assistant 'A'	Cours théorique + TD + Encadrement	
Merzougui Wafia	Architecte d'Etat	Magister	Maître Assistant 'A'	Cours théorique + TD + Encadrement	
Mokrane youssef	Architecte d'Etat	Magister	Maître Assistant 'A'	Cours théorique + TD + Encadrement	
Nasri Manel	Architecte d'Etat	Magister	Maître Assistant 'A'	Cours théorique + TD + Encadrement	

Nom, prénom	Diplôme graduation	Diplôme de spécialité (Magister, doctorat)	Grade	Type d'intervention	Emargement
Rezig Adel	Architecte d'Etat	Magister	Maître Assistant 'A'	Cours théorique + TD + Encadrement	
Rezig Djemoui	Architecte d'Etat	Magister	Maître Assistant 'A'	Cours théorique + TD + Encadrement	
Ghanemi Faten	Architecte d'Etat	Magister	Maître Assistant 'A'	Cours théorique + TD + Encadrement	
Sakhraoui Nacer	Architecte d'Etat	Magister	Maître Assistant 'A'	Cours théorique + TD + Encadrement	
Saouli Ahecine Zineddine	Architecte d'Etat	Magister	Maître Assistant 'A'	Cours théorique + TD + Encadrement	
Sebti Moufida	Architecte d'Etat	Magister	Maître Assistant 'A'	Cours théorique + TD + Encadrement	
Seghirou Belkacem	Architecte d'Etat	Magister	Maître Assistant 'A'	Cours théorique + TD + Encadrement	
Gouaref Habib Alrahmane	Architecte d'Etat	Magister	Maître Assistant 'A'	Cours théorique + TD + Encadrement	
Youcef Kamal	Architecte d'Etat	Magister	Maître Assistant 'A'	Cours théorique + TD + Encadrement	
Abdou Yamina	Architecte d'Etat	Magister	Maître Assistant 'A'	Cours théorique + TD + Encadrement	
Badache Halima	Architecte d'Etat	Magister	Maître Assistant 'A'	Cours théorique + TD + Encadrement	
Benchikha Linda	Architecte d'Etat	Magister	Maître Assistant 'A'	Cours théorique + TD + Encadrement	
Maatalah Mohamed Elhadi	Architecte d'Etat	Magister	Maître Assistant 'A'	Cours théorique + TD + Encadrement	
Mebarki Rym	Architecte d'Etat	Magister	Maître Assistant 'A'	Cours théorique + TD + Encadrement	

Nom, prénom	Diplôme graduation	Diplôme de spécialité (Magister, doctorat)	Grade	Type d'intervention	Emargement
Belarbi samia	Architecte d'Etat	Magister	Maître Assistant 'A'	TD + TP	
Boudoukha Ayoub	Architecte d'Etat	Magister	Maître Assistant 'A'	TD + TP	
Kachef Sarah	Architecte d'Etat	Magister	Maître Assistant 'A'	TD + TP	
Necira Hakima	Architecte d'Etat	Magister	Maître Assistant 'A'	TD + TP	
Tibermacine Souhila	Architecte d'Etat	Magister	Maître Assistant 'A'	TD + TP	

Visa du département



Visa de la faculté ou de l'institut



B-2 : Equipe pédagogique externe mobilisée pour la spécialité :

Nom, prénom	Etablissement de rattachement	Diplôme graduation	Diplôme de spécialité (Magister, doctorat)	Grade	Type d'intervention	Emargement
Hamadi Djamel	Université Mohamed KHIDER Biskra	Ingénieur en Génie Civil	Doctorat d'Etat	Professeur	Cours théorique	
Zeghichi Leila	Université Mohamed KHIDER Biskra	Ingénieur en Génie Civil	Doctorat en Sciences + Habilitation Universitaire	Professeur	Cours théorique	
Houhou Nabil	Université Mohamed KHIDER Biskra	Ingénieur en Génie Civil	Doctorat en Sciences	Maître de Conférences 'A'	Cours théorique	
Labed Saloua	Université Mohamed KHIDER Biskra	D.E.S en Maths	Doctorat en Sciences	Maître de Conférences 'B'	Cours théorique + TD	
Attache Salima	Université Mohamed KHIDER Biskra	Ingénieur en Génie Civil	Doctorat en Sciences	Maître de Conférences 'B'	Cours théorique + TD	
Belkacem Mounia	Université Mohamed KHIDER Biskra	Ingénieur en Génie Civil	Magister	Maître Assistant 'A'	Cours théorique + TD	
Hafidi Bachir	BET	Architecte d'Etat	Secteur Socio-économique	Professionnel	TD + TP	
Fellah Youcef	BET	Architecte d'Etat	Secteur Socio-économique	Professionnel	TD + TP	
Nedjahi Mohammed	CTC – Est Biskra	Ingénieur en Génie Civil	Secteur Socio-économique	Directeur de CTC – Est Biskra	TD + TP	
Slimani Azzedine	APC – Biskra	Architecte d'Etat	Secteur Socio-économique	P/ APC	TD + TP	
Rahal Mohammed	APC – Sidi Okba	Architecte d'Etat	Secteur Socio-économique	P/ APC	TD + TP	

Visa du département
 رئيس قسم الهندسة المعمارية
 د. سخيوي عبد الله

Visa de la faculté ou de l'institut
 كلية العلوم والتكنولوجيا
 رئيسة الكلية
 الدكتورة ربيعة عبد الحفيظ

B-3: Overall summary of human resources:

Grade	Internal Workforce	External Workforce	Total
Teachers	05	02	07
Lecturers (A)	03	01	04
Lecturers (B)	12	02	14
Assistant Master (A)	47	01	48
Assistant Master (B)	00	00	00
other (explain, list,)	00	05	05
Total	67	11	78

B-4: Permanent support staff (indicate the different categories)

Grade	Effective
Administrator	04
Administrative assistant	04
Documentalist	
Administration agent	01
Versatile agent	
TS Computer Science	01
Total	10

5 – Material resources available

A- Educational Laboratories and Equipment: Sheet of existing educational equipment for the practical work of the planned training

(1 sheet per laboratory)

Laboratory title: Computing center

Student capacity: 30

No.	Equipment title	Number	observations
01	Graphics station	01	
02	Microcomputers and complements	31	

Laboratory title: Educational laboratory of models, structures and construction materials

Student capacity: 25

No.	Equipment title	Number	observations
01	Support and various tools for making models	30	
02	Various construction and structural experimentation equipment	15	

Laboratory title: Visual Arts Room

Student capacity: 90

No.	Equipment title	Number	observations
01	Tools and workspaces for modeling and painting work	10	

Laboratory title: Physical experiment room

Student capacity: 30

No.	Equipment title	Number	observations
01	Heliodon	01	
02	Wind tunnel	01	
03	Thermohygrometer	01	
04	Lux meter	02	
05	Anemometer	01	

Laboratory title: LACOMOFA (search)

Student capacity: 30

No.	Equipment title	Number	observations
01	Various workstations	40	
02	Documentation center	01	
03	Physical environmental simulation software	03	

B- Internship sites and in-company training:

Training place	Number of students	Training period
Directorate of Housing DL, Biskra	Not precise	21d
Directorate of Public Facilities DEP, Biskra	Not precise	21d
FELLAH YUCEF Architectural Study Office, Biskra	Not precise	21d
Building Works Company TAYEB LAOUARDI, Biskra	Not precise	21d
Architectural Design Office BAHOK – BISKRA	Not precise	21d
Building Works Company BALA AMOR, Biskra	Not precise	21d
Directorate of Housing DL, El Oued	Not precise	21d
Department of Public Facilities DEP, El Oued	Not precise	21d
Directorate of Housing DL, Batna	Not precise	21d
Department of Public Facilities DEP, Batna	Not precise	21d
Architectural Study Office SELAOUI FAYÇAL	Not precise	21d
Building Works Company ZOUAOUI BOUBAKER, Biskra	Not precise	21d
Building Works Company CHIKH ALAOUA, Biskra	Not precise	21d
Architectural Study Office SETEB - BISKRA	Not precise	21d
Public Works Company BOUSSEKEUR HOUCINE	Not precise	21d
Subdivision of Housing and Public Facilities, Biskra	Not precise	21d
Building Works Company BERHAIL AMAR	Not precise	21d
Building Works Company ALOUI NACER	Not precise	21d
Building Works Company ZAABOUB ELHADJ	Not precise	21d
The COSIDER company	Not precise	21d
Building Works Company CHIKH NOUARI	Not precise	21d
Directorate of Urban Planning and Architecture and Construction DUAC, Biskra	Not precise	21d

Directorate of Urban Planning and Architecture and Construction DUAC, El Oued	Not precise	21d
Directorate of Urban Planning and Architecture and Construction DUAC, Batna	Not precise	21d
OPGI Real Estate Promotion and Management Office, Biskra	Not precise	21d
OPGI Real Estate Promotion and Management Office, El Oued	Not precise	21d
OPGI Real Estate Promotion and Management Office, Batna	Not precise	21d
APC, Biskra	Not precise	21d

C- Documentation available at the establishment level specific to the training offered:

(Required Field)

The library covers the following disciplines relating to the specialty:

- Works in Architecture.
- Civil Engineering Works.
- Works in sociology.
- Works on urban economics.
- Work on environment and ecology.

D- Personal work spaces and ICT

- 28 drawing workshop rooms.
- 26 TD rooms.
- 01 Amphi 300 Seats (courses).
- 01 Amphi 180 Seats (classes).
- 02 Amphis 130 Seats (classes).
- 01 Computer room with a capacity of 31 Microcomputers (for CAD and CAD work).
- Videoconferencing room (Home Cinema, Plasma, rear projectors, DVD player etc.).
- Internet room.
- Specialized documentation center.
- Reprography room.
- Topography Room.

II – Half-yearly teaching organization sheet
(Please present the forms for the 6 semesters)

TABLES OF THE SEMESTERLY ORGANIZATION OF TEACHINGS

Semester 1: Operational Project Management

Teaching unit	VHS	Weekly VH					coefficient	Credits	Evaluation method	
	15 weeks	VS	T.D.	TP	Works hop	CC			EXM	
Fundamental EU							10	18		
UEF1 (O/P)										
MATHEMATICS	45h	1h30	1h30				3	5	40%	60%
PHYSICAL	45h	1h30	1h30				3	5	50%	50%
PROJECT 1	90h				6am		4	8	100%	
EU methodology							5	9		
UEM1 (O/P)										
HISTORY OF ARCHITECTURE 1	45h	1h30	1h30				2	3	50%	50%
COMPUTER 1	45h			3h			2	3	50%	50%
DESCRIPTIVE GEOMETRY 1	45h	1h30	1h30				1	3	40%	60%
Transversal EU							3	3		
UET1 (O/P)										
CONSTRUCTION MATERIALS	10:30 p.m.	1h30					1	1		100%
MANAGEMENT	10:30 p.m.	1h30					1	1		100%
FOREIGN LANGUAGE 1	10:30 p.m.	1h30					1	1		100%
Total Semester 1	382h30	10:30 a.m.	6am	3h	6am	25:30	18	30		

Semester 2: Operational Project Management

Teaching unit	VHS	Weekly VH					coefficient	Credits	Evaluation method	
	15 weeks	VS	T.D.	TP	Works hop	CC			EXM	
Fundamental EU							10	18		
UEF2 (O/P)										
PLANNING THEORY	45h	1h30	1h30				3	5	50%	50%
BUILDING PHYSICS	45h	1h30	1h30				3	5	50%	50%
PROJECT 2	90h				6am		4	8	100%	
EU methodology							5	9		
UEM2 (O/P)										
HISTORY OF ARCHITECTURE 2	45h	1h30	1h30				2	3	50%	50%
STATISTICS 1	45h			3h			2	3	50%	50%
DESCRIPTIVE GEOMETRY 2	45h	1h30	1h30				1	3	40%	60%
Transversal EU							3	3		
UET2 (O/P)										
CONSTRUCTION EQUIPMENT	10:30 p.m.	1h30					1	1		100%
SOCIOLOGY	10:30 p.m.	1h30					1	1		100%
FOREIGN LANGUAGE 2	10:30 p.m.	1h30					1	1		100%
Total Semester 2	382h30	10:30 a.m.	6am	3h	6am	25:30	18	30		

Semester 3: Operational Project Management

Teaching unit	VHS	Weekly VH					coefficient	Credits	Evaluation method	
	15 weeks	VS	T.D.	TP	Works hop	CC			EXM	
Fundamental EU							10	18		
UEF3 (O/P)										
PLANNING 1	45h	1h30	1h30				3	5	50%	50%
CONSTRUCTION 1	45h	1h30	1h30				3	5	50%	50%
PROJECT 3	90h				6am		4	8	100%	
EU methodology							5	9		
UEM3 (O/P)										
BUILDING EQUIPMENT	45h	1h30	1h30				2	3	50%	50%
COMPUTER ASSISTED DRAWING	45h			3h			2	3	50%	50%
STATISTICS 2	45h	1h30	1h30				1	3	50%	50%
Transversal EU							3	3		
UET3 (O/P)										
ECONOMY 1	10:30 p.m.	1h30					1	1		100%
SOCIOLOGY OF COMMUNICATION	10:30 p.m.	1h30					1	1		100%
FOREIGN LANGUAGE 3	10:30 p.m.	1h30					1	1		100%
Total Semester 3	382h30	10:30 a.m.	6am	3h	6am	25:30	18	30		

Semester 4: Operational Project Management

Teaching unit	VHS	Weekly VH					coefficient	Credits	Evaluation method	
	15 weeks	VS	T.D.	TP	Works hop	CC			EXM	
Fundamental EU							10	18		
UEF4 (O/P)										
PLANNING 2	45h	1h30	1h30				3	5	50%	50%
BUILD 2	45h	1h30	1h30				3	5	50%	50%
PROJECT 4	90h				6am		4	8	100%	
EU methodology							5	9		
UEM4 (O/P)										
STRENGTH OF MATERIALS	45h	1h30	1h30				2	3	50%	50%
SITES AND COMPONENTS	45h	1h30	1h30				2	3	50%	50%
METER AND QUANTIFICATION	45h	1h30	1h30				1	3	50%	50%
Transversal EU							3	3		
UET4 (O/P)										
ECONOMY 2	10:30 p.m.	1h30					1	1		100%
BUSINESS SOCIOLOGY	10:30 p.m.	1h30					1	1		100%
FOREIGN LANGUAGE 4	10:30 p.m.	1h30					1	1		100%
Total Semester 4	382h30	12 p.m.	7:30 a.m.		6am	25:30	18	30		

Semester 5: Operational Project Management

Teaching unit	VHS	Weekly VH					coefficient	Credits	Evaluation method	
	15 weeks	VS	T.D.	TP	Works hop	CC			EXM	
Fundamental EU							10	18		
UEF5 (O/P)										
SCHEDULING AND DEADLINE MANAGEMENT	45h	1h30	1h30				3	5	50%	50%
QUALITY TOOLS	45h	1h30	1h30				3	5	50%	50%
PROJECT 5	90h				6am		4	8	100%	
EU methodology							5	9		
UEM5 (O/P)										
TOPOGRAPHY	45h	1h30	1h30				2	3	40%	60%
ORGANIZATION OF SITES MANAGEMENT 1	45h	1h30	1h30				2	3	50%	50%
	45h	1h30	1h30				1	3	40%	60%
Transversal EU							3	3		
UET5 (O/P)										
NICT IN THE URBAN AND ARCHITECTURAL PROJECT	10:30 p.m.	1h30					1	1		100%
INTRODUCTION TO DOCUMENTARY RESEARCH AND WRITING THE MEMORY	10:30 p.m.	1h30					1	1		100%
FOREIGN LANGUAGE 5	10:30 p.m.	1h30					1	1		100%
Total Semester 5	382h30	12 p.m.	7:30 a.m.		6am	25:30	18	30		

Semester 6: Operational Project Management

Teaching unit	VHS	Weekly VH					coefficient	Credits	Evaluation method	
	15 weeks	VS	T.D.	TP	Workshop	CC			EXM	
Fundamental EU							10	18		
UEF6 (O/P)										
BUSINESS ECONOMY	45h	1h30	1h30				3	5	50%	50%
RISK MANAGEMENT	45h	1h30	1h30				3	5	50%	50%
Dissertation AND FINAL PROJECT STUDY	90h				6am		4	8	100%	
EU methodology							5	9		
UEM6 (O/P)										
PROJECT SIMULATION	45h			3h			2	3	40%	60%
INTERNSHIP	67h30 (21 days)				4:30 a.m.		2	3	100%	
MANAGEMENT 2	45h	1h30	1h30				1	3	40%	60%
Transversal EU							3	3		
UET6 (O/P)										
LEGISLATION	10:30 p.m.	1h30					2	2		100%
FOREIGN LANGUAGE 6	10:30 p.m.	1h30					1	1		100%
Total Semester 5	382h30	7:30 a.m.	4:30 a.m.	3h	10:30 a.m.	25:30	18	30		

7- Overall summary of the training:

V.H. \ EU	UEF	EMU	UED/T	Total x 15
Course	18	7:30 p.m.	25:30	945
T.D.	18	7:30 p.m.	0	568h30
TP	0	12	0	180
Workshop/COURSE	36	4:30 a.m.	0	607:30
Total	72H00	55:30	25:30	2295h30
Credits	108	54	18	
% in credits for each EU	60%	30%	10%	100%

III - Detailed program by subject (1 detailed sheet per subject)

EU wording: FUNDAMENTAL EDUCATION UNIT 1

Sector :City professions

Speciality : Operational Project Management

Semester : 01

Identification of the teaching subject

TITLE: MATHEMATICS

Teaching Unit: FUNDAMENTAL 1 Number

of Credits: 5

Coefficient: 3

Total weekly hourly volume: 3:00 a.m.

- Course (number of hours per week): 1 hour 30 minutes
- Tutorials (number of hours per week): 1 hour 30 minutes
- Practical work (number of hours per week): 00h00

Description of the teaching subject

Prerequisites:

Basic mathematics.

General objective of the teaching subject:

- Acquire the scientific bases essential to understanding descriptive geometry, building physics, resistance of materials, programming, etc.
- Education in quantification, etc. etc.

Content of the teaching subject

- Basic reminders:

Chapter 1 :

Equations and analytical geometry

- Plane analytical geometry: Line, Point, Half-plane, Intersection of lines, Half-line, Circle and disk.
- Analytical geometry in space: Plane, Line, Point.

Chapter 2 :

trigonometry: Trigonometry formulas, Addition and difference formulas for arcs, Multiplication formulas for arcs, Development and factorization formulas (Simpson formulas),

Arc-half formulas, Al-Kashi theorem or law of cosines, Solving a triangle, Area of the triangle

Chapter 3:

Algebra: Groups (basic notions), Rings, Bodies, Affine space associated with a vector space, Affine application of affine space, Order relation and equivalence on a set. Boolean algebra.

Chapter 4:

Definitions, Spaces of matrices, Addition and multiplication by a scalar, Matrix product, Algebra of square matrices, Actions of the linear group, Linear interpretations, Bilinear interpretations, Partial catalog, Decomposition of a matrix, Norms, Exponential of a matrix

Evaluation methods

Nature of control	Weighting in %
Exam	60%
continuous	40%
Total	100%

References & Bibliography

To be defined by the teacher

Identification of the teaching subject

Title: PHYSICS

Teaching Unit: Fundamental 1 Number of

Credits: 5 Coefficient

:3Total weekly hourly volume: 3h00

- Course (number of hours per week): 1h30
- Tutorials (number of hours per week): 1h30
- Practical work (number of hours per week): 00h00

Description of the teaching subject

Prerequisites:

- Mathematics.
- Physics.
-

General objective of the teaching subject:

Understand physical phenomena and familiarize students with the properties of matter and surrounding physical phenomena, and on the other hand, to introduce them to the different calculation techniques used when designing new buildings. The field of application of all these techniques is very vast. Indeed, it encompasses a wide range of problems ranging from the stability of buildings to questions relating to comfort.

Content of the teaching subject

- 1- Mathematical tools:
 - Vectors, scalar product, vector product...
- 2- Force and statics: force and moment of a force....
- 3- Kinematics:
- 4- Dynamics:
- 5- Work and energy:
- 6- Fluid mechanics:
 - Perfect fluid, real fluid...
 - Bernoulli equation...

Series of exercises relating to each part are given at the end of the document. Most of the exercises proposed aim to illustrate the definitions introduced in the course using simple cases.

Evaluation methods

Nature of control	Weighting in %
Exam	50%
continuous	50%
Total	100%

References & Bibliography

To be defined by the teacher

Identification of the teaching subject

TITLE: PROJECT 1

Teaching Unit: Fundamental 1 Number of

Credits: 8 Coefficient

Total weekly hourly volume: 6h00

- Course (number of hours per week): 0h00
- Tutorials (number of hours per week): 0h00
- Practical work (number of hours per week): 6 hours

Description of the teaching subject

Prerequisites:

Students must have a predisposition to:

- Spatial imagination;
- A good visual memory;
- Must show an interest in the building;
- Must have logical reasoning;
- Group work skills.

General objective of the teaching subject:

Learn to read an architectural plan, through learning to draw. The aim is that the L1 student can read a plan and understand its different components.

Learning Objectives:

- Educating students in different forms of expression and representation of the project;
- Introduction to architecture
- Acquisition of basic architectural project tools;
- Acquisition of the methods and knowledge necessary for reading the project and understanding its practice, identifying its constituent elements and mastering its know-how;
- Acquisition of specialized language, specific vocabulary for an ability to clear communication;
- Acquisition at there culture constructive of project And understanding of architecture/construction relationships;

Content of the teaching subject

- Mastery of traits
- Education of the eye
- Learning to draw with instruments on simple volumes.
- Drawing of different views of simple volumes.
- Full volumes: views and sections.

-Empty volumes views and sections.

-Workshop report.

At the same time, a series of courses covering: standardized writing, the different scales, the different paper formats, the cartouche, the rating and techniques of an architectural survey is provided by the teacher.

Another part of research work is done by the students. It is worn on: doors, windows, walls and floors.

Evaluation methods

Nature of control	Weighting in %
Exam	
continuous	100%
Total	100%

References & Bibliography

BAUD Gérard, Construction of the building: masonry and reinforced concrete. Dunod, Lausanne, 1988.

R. DELEBECQUE, Building drawing .1, Librairie Delagrave edition, 1983.

Mr. DELGADO YANES, Freehand architectural drawing, Parramon SA editions 2004.

G. KIENERT and J. PELLETIER, technical drawing of public works and building, Eyrolles edition, 1980.

E. NEUFERT, The elements of construction projects, edition Le Moniteur, Dunod, 11th edition 2014.

PAULIN Michel, Illustrated vocabulary of construction. Ed. Le Moniteur, Paris 2004.

R. PRENZEL, Architectural drawing and representation technique, KRAEMER edition, KARL GMBH & CO, 1978.

RENAUD H., Technical drawing: Plan reading. Ed. Foucher, Paris 1996.

R.VITTONÉ, Building Construction Manual, Presses Polytechniques et Universitaires Romandes edition, 1996.

YAMANI Lakhdar, Construction course. Ed. OPU

-R.VITTONÉ, Building Construction Manual, Presses Polytechniques et Universitaires Romandes edition, 1996.

EU wording: METHODOLOGICAL TEACHING UNIT 1
Sector :City professions
Speciality :VSOperational Project Management
Semester : 01

Identification of the teaching subject

Title: HISTORY OF ARCHITECTURE-1

Teaching unit: methodological 1 Number of

Credits: 3 Coefficient

:2Total weekly hourly volume: 3h00

- Course (number of hours per week): 1.5 hours
- Tutorials (number of hours per week): 1 hour 30 minutes
- Practical work (number of hours per week): 0h00

Description of the teaching subject

General objective of the teaching subject:

The objective of the subject 'critical history of architecture' is to give the student the means to acquire a specific teaching culture and architectural thinking. Specificities of the history of World architecture (first part of the course, semester 01) and Algerian (2nd part of the course, semester 02).

Learning Objectives:

This course explores the strategic role of architectural history in relation to construction practices, social conditions, and transformations in techniques and technology from the mid-19th century to the contemporary period. It is an introduction to the discourses of modern, postmodern and contemporary architecture. In particular, prepare the student for the development of this discourse in Algeria.

This speech is enhanced by the overall presentation of the main theoretical sources and the most important architectural projects or achievements of this period.

Content of the teaching subject

Chapter 01: the origins of architectural modernity (18th century/19th century).

Chapter 02:the first formulations of modernity, its main protagonists and its main currents in Europe and America,

Chapter 03:the study of the work of the five great masters of modern architecture as well as some icons of modernity.

Chapter 04: the crisis of modernism and the neo-modern architects of the post-war period.

Chapter 05:the postmodern condition and advent of contemporary architecture.

Evaluation methods

Nature of control	Weighting in %
Exam	50%
continuous	50%
Total	100%

References & Bibliography

- BENEVOLO, L.**(1983),*History of the city*, Marseille, Éditions Parenthesis.
- BENEVOLO, L.**(1988),*History of modern architecture*, Volume 1 and 2, Paris, Dunod.
- BENEVOLO, L.**(1988),*History of modern architecture*, Volumes 3 and 4, Paris, Dunod.
- CALLEBAT LC**, History of architecture, Paris, Flammarion, 1998
- CHOAY, F.** (1965), Urban planning, utopias and realities, Paris, le Seuil.
- CRUNELLE Marc**,Architectural vocabulary. The house, Scripta, Vannes, 2000.
- EVERS. B., C. THOENES,** (2011),*Theory of architecture, from the renaissance to the present day*, Taschen, Cologne.
- CONTI, F., MC GOZZOLI,** (1998) **Knowing art, Roman, Gothic, Baroque, Renaissance**, Comptoir du Livre, Paris.
- OVEN, M.** (2012),*Critical history of architecture*, Algiers, OPU.
- FRAMPTON, K.**(1985),*Modern Architecture, a critical history*,Paris, Éditions Philippe Sers.
- GIEDION, S.**(2004), Space, Time, Architecture, Paris, Denoël.
- JENKS, C.**(1977),*Modern movements in architecture*, Brussels, Mardaga.
- Malverti, X.; Picard, A.**,Colonial cities founded between 1830 and 1880 in Algeria. [Research report] 489/88, Ministry of Equipment, Housing, Land Planning and Transport / Bureau of Architectural Research (BRA); Ministry of Research and Higher Education; Grenoble National School of Architecture / Grenoble Association for Architectural Research (AGRA). 1988. (hal-01902566).
- NORBERG-SCHULZ, C.**(1981), Genius Loci, Brussels, Pierre Mardaga.
- NORBERG-SCHULZ, C.**(1988),*Logical System of Architecture*, Brussels, Pierre Mardaga.
- NORBERG-SCHULZ, C.**(1997), Meaning in Western Architecture, Brussels, Pierre Mardaga.
- PANERAI, P., CASTEX, J., DEPAULE, JC.**(1997), Urban forms, from the block to the bar, Marseille, Parentheses.
- RAGON, M.**(1991), World history of modern architecture and urban planning (3 volumes), Paris, Seuil.
- ROSSI, A.**(1981), Architecture of the city, Paris, L'Équerre.
- ROWE, C., KOETTER, F.**(1993), Collage City, Paris, Center Georges Pompidou.
- VON MEISS, P.**(1986),*From form to place. An Introduction to the Study of Architecture*, Lausanne, PPUR.
- ZEVI, B.**(1959),*Learn to see architecture*, Paris, Éditons de Minuit.
- ZEVI, B.**(2015),*The modern language of architecture*, Marseille, Parentheses.

Identification of the teaching subject

Title: COMPUTER 1

Teaching Unit: Methodological 1 Number of

Credits: 3 Coefficient

:2Total weekly hourly volume: 3 hours

Course (number of hours per week) 0h00

Tutorial work (number of hours per week): 0h00 Practical

work (number of hours per week): 3h00

Description of the teaching subject

Prerequisites:

Basic knowledge of the Windows environment.

General objective of the teaching subject:

Introduction to the digital tools necessary for the acquisition of knowledge, mastery of word processing software, tables, data processing, etc.

Learning Objectives:

At the end of the semester, the student will be able to: Use Excel to:

Create spreadsheets; Design tables, graphs;

Master number manipulation techniques.

To use Word to: Create

documents; Formatting;

Tabs;

The styles;

The tables ;

Word processing;

Creation of letters;

To use Power Point to: Present

renderings; Communicate the work.

Content of the teaching subject

The content of this subject is structured around 3 phases:

Excel;

THEbasics;

Open and save;

Interface;

Cells and formats;
 Data types (numeric values: numbers, dates, times, text, etc.) Data entry;
 Bulk entry;
 Insert rows and columns;
 Formatting (modification, insertion, etc.);
 Increment;
 Calculation functions; Error checking
 Creating charts.
 Preparations for printing;

Word ;

Word interface (the different menus); Font (height, etc.)
 Paragraph, alignment;
 Header/footer (pagination);
 How to insert a reference (footer, end of document); Cover page;
 Insert a photo, replace a photo;
 Tables of contents, tables, illustrations; Tables in Word.

Power point.

Presentation of the Power point interface; Creation of a new presentation;
 Display mode: Mask/normal, insert new slides (from other files);
 Slide sorter, reading, comments page; Copy, move, delete slides;
 Animation (some notions)

Exercises and applications must accompany this content.

Evaluation methods

Nature of control	Weighting in %
Exam	50%
continuous	50%
Total	100%

References & Bibliography

To be defined by the teacher

Identification of the teaching subject

TITLE: DESCRIPTIVE GEOMETRY 1

Teaching Unit: Methodological 1 Number of

Credits: 3

Coefficient

:1Total weekly hourly volume: 3h00

- Course (number of hours per week): 01H30Mn
- Tutorials (number of hours per week): 1.5 hours
- Practical work (number of hours per week): 00:00

Description of the teaching subject

Prerequisites:

Semester 1 was devoted to a reminder of Plane Geometry, Geometry in Space, Projective Geometry...etc. in order to fill the gap in terms of prerequisites and put all students at the same level in the subject of drawing.

General objective of the teaching subject:

The main objective, it should be remembered, was to develop the student's imagination. In other words and didactically speaking: the three-dimensional object is first presented by its axonometric image in space, then by its two projections (Horizontal and Frontal) in the form of a geometric drawing

Learning Objectives:

The transition from a three-dimensional form of presentation to a two-dimensional one resulted, it should be noted, following more or less rigorous Mathematics type demonstrations.

Content of the teaching subject

Chapter 1: Reminders

- Generalities - notions - concepts;
- Geometry in space - problem of construction of measurement;
- Projective space;
- Projection ;
- Orthogonal projection;
- Parallel projection;

- Fundamental theorems;
- Exercises.

Chapter 2: The double orthogonal projection

- Point
- The right ;
- The Plans;
- Fundamental problems of belonging;
- Remarkable lines of a plane;
- The remarkable plans;
- Intersection of a line and a plane; Intersections of two planes;
- Straight and perpendicular plane;
- Visualization; Distance ; Actual size;
- Exercises.

Evaluation methods

Nature of control	Weighting in %
Exam	60%
continuous	40%
Total	100%

References & Bibliography

- Pr RIBOUH .B; Dr TEBIB .E; Double projection for the use of architectural drawing; Volume 1 Edition Bahaeddine 2009.
- AUBERT Jeans. : Course of drawing of architecture has leave of there geometrydescriptive. Coll. Expertise ; Ed. La Villette; Paris 1982.
- BEGUIN A.: Technical dictionary and criticism of drawing. Ed. Oyez.
- BONDON B.: Scientific and artistic perspectives. Ed. Eyrolles.
- DELEBEQUE R.: Building, No. 1: Drawing. Ed. Delagrave; Paris 1985.
- DESBATS J.: Descriptive geometry and listed geometry. Ed. Magnard; Paris 1961.

EU wording: DISCOVERY/TRANSVERSAL TEACHING UNIT 1
Sector :City professions
Speciality : VSOperational Project Management
Semester : 01

Identification of the teaching subject

Title: CONSTRUCTION MATERIALS

Transversal/discovery teaching unit Number of

Credits: 1 Coefficient

:1.Total weekly hourly volume: 1h30

- Course (number of hours per week): 1h30.
- Tutorials (number of hours per week): 0h00
- Practical work (number of hours per week): 0h00

Description of the teaching subject

General objective of the teaching subject:

This course aims to provide detailed information on the different construction materials to enable construction choices to be made based on their properties, under the conditions of consistency, safety, durability and cost.

Also become aware of the diversity of materials and their use in buildings.

Learning Objectives:

The student must know the production materials and their uses.

Content of the teaching subject

- Binders, cement; plaster; gypsum
- Concrete, reinforced concrete, prestressed concrete, lightweight concrete,
- Aggregates,
- The additives,

Evaluation methods

Nature of control	Weighting in %
Exam	100%
Continuous	
Total	100%

References & Bibliography

- Aggregates, soils, cements and concrete: Characterization of civil engineering materials by laboratory tests, Raymond DUPAIN,
- Aggregates, soils, cements and concrete: Characterization of civil engineering materials by testing
- Laboratory, Raymond DUPAIN, Roger LANCHON, Jean-Claude SAINT-ARROMAN, A CAPLIEZ,
- Building materials 1, Prof. JP DELISLE, F. ALOU, Lausanne, October 1978
- Building materials, GI GORCHAKOV, Moscow 1988
- Housing materials, DUFOND and FAURY
- New guide to concrete and its constituents Georges DREUX, Jean FESTA, Edition eyrolles, 1998
- Roger LANCHON, Jean-Claude SAINT-ARROMAN, A CAPLIEZ, Editions CASTEILLA , 2004
- Building Materials Technology, KOMAR

Identification of the teaching subject

Title: MANAGEMENT

Teaching Unit: DISCOVERY/TRANSVERSAL 1 Number of Credits: 1 Coefficient : 1

Total weekly hourly volume: 1h30

- Course (number of hours per week): 1.5 hours
- Tutorials (number of hours per week): 0H00
- Practical work (number of hours per week): 0h00

Description of the teaching subject

General objective of the teaching subject:

Understand the issues of the architectural project in the socio-economic context.

Learning Objectives:

At the end of the course, the student will be able to:

Understand the concepts relating to management;

Apply knowledge in the context of a construction project

Content of the teaching subject

- Generalities, definitions, concepts;
- Staff management ;
- Material management;
- Resource management.

Evaluation methods

Nature of control	Weighting in %
Exam	100%
continuous	
Total	100%

References & Bibliography

To be defined by the teacher

Identification of the teaching subject

TITLE: FOREIGN LANGUAGE -1

Teaching unit: Transversal 1

Number of Credits: 1 Coefficient

:1Total weekly hourly volume:

- Course (number of hours per week): 1.5 hours
- Tutorials (number of hours per week): 0H00
- Practical work (number of hours per week): 0h00

Description of the teaching subject

Prerequisites:

Basic knowledge of French

General objective of the teaching subject:

Mastery of basic tools for understanding other different teaching subjects, as well as the acquisition of the basics of communication in French in relation to the specialty.

Learning Objectives:

Development of written and oral communication and expression skills

Content of the teaching subject

- The basics of the French language: the word, the sentence, the text
- Types of texts
- Construction of a paragraph;
- Text synthesis.
- Note taking,
- Abbreviations;
- Reading sheet;
- THElexical networks;
- THElanguage registers;
- Comparison and metaphor;
- Enunciation
- The speech act - communication ;
- The press text;

- How to present an opinion;
- How to connect ideas together;

Evaluation methods

Nature of control	Weighting in %
Exam	100%
continuous	
Total	100%

References & Bibliography

1. Piolat, A. "Towards improving text writing." Accreditation file to direct research. University of Provence (1990).
2. Ollivier, C. "Theory of text editing." Accessed at "<http://eurofle.files.wordpress.com/2009/03/theories.pdf>" (May 31, 2013).
3. Moffet, Jean-Denis. I think, therefore I write: guide to writing informative texts. Editions of Educational Renewal, 1993.
4. Fillon, Pierre, and Anne Vérin. "Writing to understand science." Aster, 2001, 33 "Writing to understand science" (2001).
5. Giasson, Jocelyne. "Reading." From theory to practice 1 (1995).
6. Crinon, Jacques, and Brigitte Marin. "Learn to write explanatory texts in a collaborative revision situation." Communication at the international conference "From France to Quebec, Scripture in all its states", Poitiers. 2008.
7. Combettes, Bernard. "Text types and language facts." Practices 56.5 (1987).
8. Alcorta, Martine. "Use of draft and development of writing skills." Revue française de pédagogie (2001): 95-103.
9. Vandendorpe, Christian. "Beyond the sentence: the grammar of the text." 1995.

EU wording: FUNDAMENTAL TEACHING UNIT 2
Sector :City professions
Speciality : Operational Project Management
Semester : 02

Identification of the teaching subject

TITLE: PLANNING THEORY

Teaching Unit: FUNDAMENTAL 2 Number of

Credits: 05 Coefficient

:03Total weekly hourly volume: 3h00

- Course (number of hours per week): 01h30
- Tutorials (number of hours per week): 1.5 hours
- Practical work (number of hours per week): 00:00

Description of the teaching subject

Prerequisites:

Prior knowledge of quantity surveying, organization and management of construction sites.

General objective of the teaching subject:

Acquire the theoretical bases of planning applied to the construction project; spirit, techniques and methods. Mastery of the operational organization and programming of the execution of work on a construction site.

Learning Objectives:

Be able to determine the different plots of a schedule (planning subsets, planning sub-networks, work units and composite and elementary tasks, etc.) and to master the constraints and relationships between these plots.

Content of the teaching subject

Chapter 1: Introduction to planning

- Introduction;
- Planning;
- The different categories of schedules in the BTPH;
- The documents necessary to establish a schedule;
- The information necessary to establish a schedule;
- The different modes of representation of schedules.

Chapter 2: Establishment of a general TCE schedule

- Prerequisite concepts;
- Difficulties to overcome;
- General rules for designing a general TCE schedule;

- Process of developing a schedule.

Chapter 3: the elements of a schedule

- Introduction;
- Tasks ;
- The planning unit of work;
- Nature and composition of tasks;
- Building task lists;
- Compound tasks;
- Subnetworks;
- Planning subsets;

Chapter 4: Calculation of durations and values

- Meaning of duration and its use;
- The duration-cadence relationship;
- The average elementary duration;
- The basic reference duration;
- The distribution of elements;
- The overall reference duration;
- The type of the compound task;
- The cut tasks,
- The number of sections;
- Cutting.

Evaluation methods

Nature of control	Weighting in %
Exam	50%
Continuous	50%
Total	100%

References & Bibliography

- ÉMILE OLIVIER: Practical organization of construction sites VOLUME-1. Modern Publishing Company 6th updated edition;
- ÉMILE OLIVIER: Practical organization of construction sites VOLUME-2. Modern Publishing Company 6th updated edition;
- Patrick ESQUIROL and Pierre LOPEZ: Scheduling. ECONOMICA;
- VATTEVILLE E : measures of theresources humans And management of the company.ECONOMICA;
- WOOT Ph: high-tech companies and Europe. ECONOMICA;

Identification of the teaching subject

Title: BUILDING PHYSICS

Teaching unit: fundamental2

Number of Credits: 5 Coefficient

:3Total weekly hourly volume: 3h00

- Course (number of hours per week): 1h30
- Tutorials (number of hours per week): 1h30
- Practical work (number of hours per week): 0h00

Description of the teaching subject

Prerequisites:

- Mathematics
- Physical

General objective of the teaching subject:

- Present the basics of thermal, acoustics and electricity to understand their applications in buildings.

Content of the teaching subject

1- Thermal:

- Mode of heat transfer: conduction, convection and radiation.
- Mass transfer. 2-

Acoustics:

- Sound waves, acoustic pressure....
- Transmission, reflection and absorption of

sound.... 3- Electricity:

- Electric current, Ohm's law, Kirchoff's law....

Series of exercises relating to each part are given at the end of the document. Most of the exercises proposed aim to illustrate the definitions introduced in the course using simple cases.

Evaluation methods

Nature of control	Weighting in %
Exam	50%
Continuous	50%
Total	100%

References & Bibliography

- 1- Yves Jannot, Thermal Transfer.
- 2- Jean Taine Franck Enguehard Estelle lacona, THERMAL TRANSFERS INTRODUCTION TO ENERGY TRANSFERS.
- 3- CIAT, Documentations.
- 4- THE GREAT BOOK OF ELECTRICITY, Thierry Gallauziaux, David Fedullo.

Identification of the teaching subject

TITLE: PROJECT 2

Teaching Unit: FUNDAMENTAL 2 Number

of Credits: 8

Coefficient: 4

Total weekly hourly volume: 6:00 a.m.

- Course (number of hours per week): 0h00
- Tutorials (number of hours per week): 0h00
- Practical work (number of hours per week): 6 hours

Description of the teaching subject

Prerequisites:

Students must have a predisposition to:

- Spatial imagination;
- A good visual memory;
- Must show an interest in the building;
- Must have logical reasoning;
- Group work skills.

General objective of the teaching subject:

Allow the student to know a large part of architectural construction, to carry out surveys and to read the different constructive components of the projects.

Learning Objectives:

- Educating students in different forms of expression and representation of the project;
- Introduction to architecture
- Acquisition of basic architectural project tools;
- Acquisition of the methods and knowledge necessary for reading the project and understanding its practice, identifying its constituent elements and mastering its know-how;
- Acquisition of specialized language, specific vocabulary for an ability to there clear communication;
- Acquisition at there culture constructive of project And understanding of architecture/construction relationships;

Content of the teaching subject

students discover the stairs, through the survey of a stairwell at the faculty level. Survey, sections and facades.

-an exercise relating to the reproduction of a small project, to recapitulate all the knowledge acquired during S1 and S2.

-As end-of-semester work, students must work on a plan provided by the teacher in order to insert a stairwell and propose a floor, with a foundation and sanitation plan.

All this is accompanied by courses on: stairs in general, foundations, the foundation plan and sanitation.

Students will have research work on: the different types of stairs, and the different foundations.

Evaluation methods

Nature of control	Weighting in %
CONTINUOUS	100%
EXAM	
Total	100%

References & Bibliography

BAUD Gérard, Construction of the building: masonry and reinforced concrete. Dunod, Lausanne, 1988.

R. DELEBECQUE, Building drawing .1, Librairie Delagrave edition, 1983.

Mr. DELGADO YANES, Freehand architectural drawing, Parramon SA editions 2004.

G. KIENERT and J. PELLETIER, technical drawing of public works and building, Eyrolles edition, 1980.

E. NEUFERT, The elements of construction projects, edition Le Moniteur, Dunod, 11th edition 2014.

PAULIN Michel, Illustrated vocabulary of construction. Ed. Le Moniteur, Paris 2004.

R. PRENZEL, Architectural drawing and representation technique, KRAEMER edition, KARL GMBH & CO, 1978.

RENAUD H., Technical drawing: Plan reading. Ed. Foucher, Paris 1996.

R.VITTONÉ, Building Construction Manual, Presses Polytechniques et Universitaires Romandes edition, 1996.

YAMANI Lakhdar, Construction course. Ed. OPU

EU wording: METHODOLOGICAL TEACHING UNIT 2
Sector :City professions
Speciality : Operational Project Management
Semester : 02

Identification of the teaching subject

Title: HISTORY OF ARCHITECTURE 2

Teaching unit: METHODOLOGY 2 Number of

Credits: 3 Coefficient

:2. Total weekly hourly volume: 3h00

- Course (number of hours per week): 1.5 hours.
- Tutorials (number of hours per week) 1.5 hours
- Practical work (number of hours per week): 0h00

Description of the teaching subject

➤ General objective of the teaching subject:

The objective of the subject 'critical history of architecture' is to give the student the means to acquire a specific teaching culture and architectural thinking. Specificities of the history of World architecture (first part of the course, semester 01) and Algerian (2nd part of the course, semester 02).

This course explores the strategic role of architectural history in relation to construction practices, social conditions, and transformations in techniques and technology from the mid-19th century to the contemporary period. It is an introduction to the discourses of modern, postmodern and contemporary architecture. In particular, prepare the student for the development of this discourse in Algeria.

This speech is enhanced by the overall presentation of the main theoretical sources and the most important architectural projects or achievements of this period.

➤ Learning Objectives:

This second part of the course is specific to the history of Algerian architecture, covering the precolonial and postcolonial period. It explores the sources and the identity of Algerian architecture.

The objectives specific to this part of the course:

- Recognize and analyze the characteristic architecture of different periods of Algerian history.
- Understand the fundamental factors which have influenced and still influence the continuities and ruptures of the identity of architecture in a specific and complex cultural context of Algeria: tradition, fashions, ideologies, economy, technical progress, climate, acculturation , etc.
- Become familiar with research tools.
- Raise students' awareness of heritage issues.

Content of the teaching subject

Chapter 01: Vernacular architecture, wealth and disparities

Chapter 02: History of architecture in colonial Algeria, Urban planning of colonialism and influences on the territory

Chapter 03: History of Architecture in colonial Algeria, Decline of the neo-Moorish style, appearance of modern Architecture

Chapter 04:History of Architecture in colonial Algeria, Historicist approach of Pouillon and plan of Constantine.

Chapter 05: the history of architecture in independent Algeria,

- Accelerated pace of urbanization and destruction of a spatial balance acquired during colonization
- Appearance of new concepts and phenomena of urbanization: ZHUN, Housing developments, illegal housing,
- Socialist Villages Program

Chapter 06: History of Architecture in independent Algeria

- The implementation of instruments to control urban growth adapted to the economic situation and the realization of a series of operational urban planning operations
- New housing policy in its various forms: social, progressive, promotional, etc.
- Search for landmarks and symbols for global architecture

Evaluation methods

Nature of control	Weighting in %
Exam	50%
Continuous	50%
Total	100%

References & Bibliography

BENEVOLO, L.(1983),*History of the city*, Marseille, Éditions Parenthesis.

BENEVOLO, L.(1988),*History of modern architecture*, Volume 1 and 2, Paris, Dunod.

BENEVOLO, L.(1988),*History of modern architecture*, Volumes 3 and 4, Paris, Dunod.

CALLEBAT LC, History of architecture, Paris, Flammarion, 1998
CHOAY, F. (1965), Urban planning, utopias and realities, Paris, le Seuil.

CRUNELLE Marc,Architectural vocabulary. The house, Scripta, Vannes, 2000.

EVERS. B., C. THOENES, (2011),*Theory of architecture, from the renaissance to the present day*, Taschen, Cologne.

CONTI, F., MC GOZZOLI, (1998) **Knowing art, Roman, Gothic, Baroque, Renaissance, Comptoir du Livre.**

OVEN, M. (2012),*Critical history of architecture, Algiers, OPU.*

FRAMPTON, K.(1985),*Modern Architecture, a critical history*,Paris, Éditions Philippe Sers.

GIEDION, S.(2004), Space, Time, Architecture, Paris, Denoël.

JENKS, C.(1977),*Modern movements in architecture*, Brussels, Mardaga.

Malverti, X.; Picard, A.,Colonial cities founded between 1830 and 1880 in Algeria. [Research report] 489/88, Ministry of Equipment, Housing, Land Planning and Transport / Bureau of Architectural Research (BRA); Ministry of Research and Higher Education; Grenoble National School of Architecture / Grenoble Association for Architectural Research (AGRA). 1988. (hal-01902566).

NORBERG-SCHULZ, C.(1981), Genius Loci, Brussels, Pierre Mardaga.

NORBERG-SCHULZ, C.(1988),*Logical System of Architecture*, Brussels, Pierre Mardaga.

NORBERG-SCHULZ, C.(1997), Meaning in Western Architecture, Brussels, Pierre Mardaga.

PANERAI, P., CASTEX, J., DEPAULE, JC.(1997), Urban forms, from the block to the bar, Marseille, Parentheses.

RAGON, M.(1991), World history of modern architecture and urban planning (3 volumes), Paris, Seuil.

ROSSI, A.(1981), Architecture of the city, Paris, L'Équerre.

ROWE, C., KOETTER, F.(1993), Collage City, Paris, Center Georges Pompidou.

VON MEISS, P.(1986),*From form to place. An Introduction to the Study of Architecture*, Lausanne, PPUR.

ZEVI, B.(1959),*Learn to see architecture*, Paris, Éditions de Minuit.

ZEVI, B.(2015),*The modern language of architecture*, Marseille, Parentheses.

Identification of the teaching subject

TITLE: STATISTICS 1

Teaching unit: **METHODOLOGY 2** Number of

Credits: 3 Coefficient

:2 Total weekly hourly volume: 3h00

- Course (number of hours per week): 0h00
- Tutorials (number of hours per week): 0h00
- Practical work (number of hours per week): 3 hours

Description of the teaching subject

Prerequisites:

Mathematics.

General objective of the teaching subject:

- Systematic and objective identification of information.
- Collection, analysis, interpretation of data.
- With the aim of improving decision-making related to a problem.

Content of the teaching subject

1- Descriptive statistics:

- The statistical series with a single variable.
- Positional parameters.
- Dispersion parameters.
- Graphical representations.

2- The probabilities:

- The random experiment.
- Probability on a finite set.
- Discrete probability laws.
- Repeats of identical and independent experiments.
- Probability and independence.

Series of exercises relating to each part are given at the end of the document. Most of the exercises proposed aim to illustrate the definitions introduced in the course using simple cases.

Evaluation methods

Nature of control	Weighting in %
Exam	50%
Continuous	50%
Total	100%

References & Bibliography

- 1- www.kartable.fr
- 2- Abdennasser Chakroun, “descriptive statistics and exercises”.
- 3- -Olivier Gaudoin, Statistical Principles and Methods, Ensimag - 2nd year, Grenoble
- 4- -Dagnelie P., Theoretical and applied statistics, 2nd Edition, De Boeck University, 2007. 5-
- Dalgaard P., Introductory Statistics with R, 2nd edition, Springer, 2008.
- 6- -Lejeune M., Statistics, theory and its applications, Springer, 2004.
- 7- -Montgomery DC, Runger GC, Applied Statistics and Probability for Engineers, 4th Edition, Wiley, 2007.
- 9- -Morgenthaler S., Introduction to statistics, 3rd Edition, Presses polytechniques 10- et Universitaires Romandes, 2007.
- 11- -Saporta G., Probability, data analysis and statistics, 2nd Edition, Technip, 2006

Identification of the teaching subject

TITLE: DESCRIPTIVE GEOMETRY 2

Teaching Unit: Methodological 2 Number of

Credits: 3

Coefficient

Total weekly hourly volume: 3h00

- Course (number of hours per week): 01H30Mn
- Tutorials (number of hours per week): 1.5 hours
- Practical work (number of hours per week): 00:00

Description of the teaching subject

Prerequisites:

Semester 1 was devoted to a reminder of Plane Geometry, Geometry in Space, Projective Geometry...etc. in order to fill the gap in terms of prerequisites and put all students at the same level in the subject of drawing.

General objective of the teaching subject:

The main objective, it should be remembered, was to develop the student's imagination. In other words and didactically speaking: the three-dimensional object is first presented by its axonometric image in space, then by its two projections (Horizontal and Frontal) in the form of a geometric drawing

Learning Objectives:

The transition from a three-dimensional form of presentation to a two-dimensional one resulted, it should be noted, following more or less rigorous Mathematics type demonstrations.

Content of the teaching subject

The double orthogonal projection

- Point
- The right ;
- The Plans;
- Fundamental problems of belonging;
- Remarkable lines of a plane;
- The remarkable plans;
- Intersection of a line and a plane; Intersections of two planes;
- Straight and perpendicular plane;
- Visualization; Distance ; Actual size;
- Exercises.

Evaluation methods

Establishment: Mohamed KHIDER University - Biskra

Titled of the License: Operational Management of Projects

Academic year: 2020/2021

Nature of control	Weighting in %
Exam	60%
Continuous	40%
Total	100%

References & Bibliography

- Pr RIBOUH .B; Dr TEBIB .E; Double projection for the use of architectural drawing; Volume 1 Edition Bahaeddine 2009.
- AUBERT Jeans. : Course of drawing of architecture has leave of there geometrydescriptive. Coll. Expertise ; Ed. La Villette; Paris 1982.
- BEGUIN A.: Technical dictionary and criticism of drawing. Ed. Oyez.
- BONDON B.: Scientific and artistic perspectives. Ed. Eyrolles.
- DELEBEQUE R.: Building, No. 1: Drawing. Ed. Delagrave; Paris 1985.
- DESBATS J.: Descriptive geometry and listed geometry. Ed. Magnard; Paris 1961.

EU wording: DISCOVERY/TRANSVERSAL TEACHING UNIT 2
Sector :City professions
Speciality : Operational Project Management
Semester : 02

Identification of the teaching subject

TITLE: CONSTRUCTION EQUIPMENT

Teaching Unit: DISCOVERY/TRANSVERSAL 2 Number of

Credits: 1.

Coefficient : 1.

Total weekly hourly volume: 1h30

- Course (number of hours per week): 1h30
- Tutorials (number of hours per week): 0h00
- Practical work (number of hours per week): 0h00

Description of the teaching subject

Prerequisites:construction site and its components

General objective of the teaching subject:

This course aims to provide detailed information on the various materials to enable planning design; risk management and financial arrangements for the construction project

Learning Objectives:

The student must know the different construction site materials, their uses, and the capacity of each material in the achievements

Content of the teaching subject

1-Introduction

2-The usefulness of construction

equipment 3-Materials and tools

3-1-earthmoving equipment.

3-2- Compaction

3-3-transport equipment.

3-4-handling equipment.

3-5-concreting and pouring equipment.

4-Optimization and choice of construction site

equipment. 5-construction site tools

Evaluation methods

Nature of control	Weighting in %
Exam	100%
Continuous	
Total	100%

References & Bibliography

To be defined by the teacher.

Identification of the teaching subject

Title: SOCIOLOGY

Teaching unit :DISCOVERY/TRANSVERSAL 2Number of

Credits: 1. Coefficient 1 Total

weekly hourly volume: 1h30

- Course (number of hours per week): 1h30
- Tutorials (number of hours per week): 0h00
- Practical work (number of hours per week): 0h00

Description of the teaching subject

Prerequisites: Culture in human and social sciences.

General objective of the teaching subject:

The main objective is to understand and explain the functioning and dynamics of today's companies, that is to say the human and social bond in its three essential aspects: highlighting the actors and their logic of conduct, the creation of rules by the group of actors to act, and the meaning to their experience given by individuals

Learning Objectives:

- Acquire basic knowledge concerning the sociological posture dedicated to the main chosen enigmas of contemporary business (decision, contingency, politics, identity)
- Carry out a sociological approach based on a concrete situation

Content of the teaching subject

- Introduction to sociology;
 - Definition
 - Goals
 - Methods
- Field of study of sociology:
 - thererural sociology;
 - thereurban sociology;
 - theresociology of work;
- Social and work relations;
- Forms of interaction in the workplace;
- Impact of ICT / work organization in companies

Evaluation methods

Nature of control	Weighting in %
Exam	100%
Continuous	
Total	100

References & Bibliography

Lucie Tanguy(2011), The Sociology of Work in France, Paris, La Découverte, collection “Research”, 272 pages, chapter 10, “The launch of a sociology of business”

Encyclopædia Universalis“Sociology of business”

Guy MINGUET(), *SBUSINESS OCIOLOGY*, Department of Human and Social Sciences LIMINARY

Guy Minguet and Christian Thuderoz (direction) (2004), Work, businesses and society, Sociology manual for engineers and scientists, Paris, PUF, Social Sciences and Society Collection).

Bernoux P. (1995), The sociology of businesses, Paris, Seuil, (Points Essais Poche)

Bernoux P. (1994), The sociology of organizations, Paris, Seuil, (Points Essais Poche)

Thuderoz C., (1996), Business sociology, Paris, La Découverte.

FIJALKOW Yankel(2002), Sociology of the city, La Découverte, Paris.

DURKHEIM Emile (1973), *The Rules of there method sociological*, Paris, Pressesacademics in France.

LEDRUT Raymond (1979), Urban sociology, PUF, Paris.

Description of the teaching subject

Title: FOREIGN LANGUAGE 2

Teaching unit: DISCOVERY/TRANSVERSE2. Number of

Credits: 1. Coefficient 1 Total

weekly hourly volume: 1h30

- Course (number of hours per week): 1h30
- Tutorials (number of hours per week): 0h00
- Practical work (number of hours per week): 0h00

Identification of the teaching subject

Prerequisites: Basic knowledge of French

General objective of the teaching subject:

- Mastery of administrative, professional and scientific writing relating to the specialty.

Learning Objectives: the student must:

- master written and oral expression in French;
- develop communication abilities and skills, social and professional behavior and mastery of debate and discussion situations.

Content of the teaching subject

- Administrative writing
- Professional writing;
- The internship;
- methods and tools for setting objectives as well as the educational process of the internship.

Evaluation methods

Nature of control	Weighting in %
Exam	100%
CONTINUOUS	
Total	100

References & Bibliography

LICETTE Charline(2012), Mastering Public Speaking, ed. StudyramaPro, 149 p.

BRETON Philippe, PROULX Serge(2000), The explosion of communication, ed. Casbah, Algiers, 320 p.

BRETON Philippe(2000), The utopia of communication: the myth of the global village, ed. Casbah, Algiers, 169 p.

GUIDE TO THE CORPUS OF KNOWLEDGE IN PROJECT MANAGEMENT

(PMBOK® GUIDE) – Sixth edition;

EU wording: FUNDAMENTAL TEACHING UNIT 3
Sector :City professions
Speciality : Operational Project Management
Semester : 03

Identification of the teaching subject

TITLE: PLANNING-1

Teaching Unit: FUNDAMENTAL 3 Number
of Credits: 5 Coefficient

:3Total weekly hourly volume: 3h00

- Course (number of hours per week): 01h30
- Tutorials (number of hours per week): 1.5 hours
- Practical work (number of hours per week): 00:00

Description of the teaching subject

Prerequisites:

Prior knowledge in the theory of planning, organization and management of construction sites and on the elements of a project (work).

General objective of the teaching subject:

Mastery of calculating durations and timing tasks. Mastery of the operational organization and programming of the execution of work on a construction site while respecting deadlines and construction standards. Mastery of different types of schedules. Make programming based on work time, materials, labor and material supply.

Learning Objectives:

Be able to calculate durations and determine the human and material resources necessary for carrying out a construction. Be able to do programming based on work time, materials, labor and the supply of materials to complete a work while respecting the planned deadlines.

Content of the teaching subject

Chapter 1: The links

- Definition;
- Links and constraints;
- The subnetworks of elementary tasks and compound tasks;

- Starter tasks, end tasks and isolated tasks;
- Antennas ;
- Basic subnets

Chapter 2: External constraints

- Definition;
- The external constraints of the 1st group;
- The external constraints of the 2nd group;
- The external constraints of the 3rd group;
- The external constraints of the 4th group;
- Complete characteristics of a link;
- Exercises.

Chapter 3: Internal constraints

- Definition;
- Non-overlap in the timing program at the earliest;
- Non-overlap in timing at the latest;
- Continuity in the calibration program as soon as possible;
- Continuity in the calibration program as soon as possible;
- Exercises.

Evaluation methods

Nature of control	Weighting in %
Exam	50%
CONTINUOUS	50%
Total	100%

References & Bibliography

- ÉMILE OLIVIER: Practical organization of construction sites VOLUME-1. Modern Publishing Company 6th updated edition;
- ÉMILE OLIVIER: Practical organization of construction sites VOLUME-2. Modern Publishing Company 6th updated edition;
- Patrick ESQUIROL and Pierre LOPEZ: Scheduling. ECONOMICA;
- VATTEVILLE E : measures of the resources humans And management of the company.ECONOMICA;
- WOOT Ph: high-tech companies and Europe. ECONOMICA;

Identification of the teaching subject

TITLE: CONSTRUCTION 1

Teaching Unit: FUNDAMENTAL 3 Number of

Credits: 5 Coefficient

:3Total weekly hourly volume: 3h00

- Course (number of hours per week): 1h30
- Tutorials (number of hours per week): 1h30
- Practical work (number of hours per week): 0h00

Description of the teaching subject

Prerequisites: mathematics, construction site and its components; building material;

General objective of the teaching subject: This subject is an introduction to civil engineering structures, in particular, buildings; the way buildings are commonly organized from a structural point of view, the different structural components,

Learning Objectives: Give to the student of knowledge on the design and construction of current constructions; and dry components

Content of the teaching subject

Structural components of a building

- 1- Common foundation typologies
 - Superficial foundations
 - Deep foundations
 - BEARING CAPACITY,
 - 2- Types of reinforced concrete construction
 - FUNDAMENTAL CONCEPTS
 - FRAMEWORK ELEMENTS
 - THE SPECIFICITIES OF CONCRETE ELEMENTS
 - THE COMPOSITION OF CONCRETE
 - THE CONCRETE – STEEL ASSOCIATION
 - MECHANICAL OPERATION
 - THE MAIN PRINCIPLES
 - Adhesion
 - The compression
 - Traction
 - Bending:
 - Reinforced concrete construction elements
- Poles

- Beams.
- Sails.
- Slabs.
- stairs
 - IMPLEMENTATION METHODS
 - THE SEARCH FOR A SUITABILITY
 - ON-SITE MANUFACTURING
 - TOTAL REALIZATION ON SITE.
 - PARTIAL PRODUCTION ON SITE WITH USE OF INDUSTRIALIZED PRODUCTS

Evaluation methods

Nature of control	Weighting in %
Exam	50%
Continuous	50%
Total	100%

References & Bibliography

Algerian reinforced concrete code.....

SIA D0191 (2004) Basis for the development of load-bearing structure projects/Actions on load-bearing structures: Examples of sizing according to SIA260 and 261 standards. SIA documentation. Swiss Society of Engineers and Architects, Zurich.

SIA 162 (1989), Concrete construction. Standard. Swiss Society of Engineers and Architects, Zurich.

Georges Dreux, "Practical calculation of reinforced concrete. BAEL 80 rules", Eyrolles, 1981.

A. Guerrin and RC Lavour, "Reinforced concrete treaty; General experimental mechanical properties of reinforced concrete, Volume 1", Dunod, 1973.

Jean Pierre Mougín, "Reinforced concrete, BAEL 91 modified 99 and associated DTU", Eyrolles, 2000.

M. Albiges and M. Mingasson, "Theory and Practice of reinforced concrete in limit states", Eyrolles, 1981.

8- BAEL 91 rules, "Technical rules for the design and calculation of reinforced concrete works and constructions using the limit states method", Eyrolles, March 1992.

H. Renaud and F. Letertre, "Reinforced concrete structures", Foucher, 1985.

Eurocode 2, Design of concrete structures - Part 1-1: general rules and regulations for buildings, NF EN 1992-1-1 October 2005.

Christian Albouy, "Eurocode2: reinforced concrete - simple elements", CERPET – STI, 2007.

JA Calgaro, "Applications of Eurocode 2 – Design of concrete buildings", bridges and roads, 2007.

Identification of the teaching subject

Title: PROJECT 3

Teaching unit: FUNDAMENTAL 3

Number of Credits: 8

Coefficient 4.

Total weekly hourly volume: 6 hours

- Courses (number of hours per week): 0h00.
- Tutorials (number of hours per week): 0h00
- Practical work (number of hours per week): 6 hours

Description of the teaching subject

Prerequisites:

Have fundamental knowledge in:

- Graphic and oral expression tools;
- Geometry and mathematics.

General objective of the teaching subject:

- Moving from reading an architectural file to preparing an execution file: civil engineering and CES
- Moving from the preparation of an execution file: architecture, civil engineering and CES to the quantitative evaluation of a project, the quantity survey.

Learning Objectives:

At the end of the year, the student will be able to:

- Master the knowledge allowing the reading of an execution file;
- Master the graphic documentation constituting an execution file;
- Getting started with quantity surveying (quantification, estimation and description)

Content of the teaching subject

1st part:

- Aevaluation of previous knowledge (L1 project subject);
- The orthogonal projection of a plan, section, facade.

Objective: updating of the basic standards of orthogonal projection already acquired in L1

2nd part:

- Reading an architectural volume

Objective: the proposal of the different components of an architectural file through the observation of a volume.

Evaluation methods

Nature of control	Weighting in %
Exam	
Continuous	100%
Total	100%

References & Bibliography

- MINISTRY OF TOWN PLANNING AND CONSTRUCTION**, The layout of *subdivisions (recommendations)*. Ed. OPU, Algiers 2003. Collection of architecture and town planning.
- MINISTRY OF HABITAT**, Architectural recommendations. Ed. ENAG, Algiers 1993.
- RENAUD H.**, Technical drawing: Plan reading. Ed. Foucher, Paris 1996.
- BAUD Gérard**, Construction of the building: masonry and reinforced concrete. Dunod, Lausanne, 1988.
- PAULIN Michel**, Illustrated vocabulary of construction. Ed. Le Moniteur, Paris 2004.
- YAMANI Lakhdar**, Construction course. Ed. OPU
- Building: construction manual, Romandes, Lausanne, 1999.
- Building technology, Eyrolles, Paris, 1986.
- The reinforced concrete project, SEBTP, Paris, 2005.
- Establishing a building project, Eyrolles, Paris, 1985. Cheat sheet of the structural work of the building, Dunod, Paris, 1977.

EU wording: METHODOLOGICAL TEACHING UNIT 3

Sector :City professions

Speciality : Operational Project Management

Semester : 03

Identification of the teaching subject

TITLE: CAD (COMPUTER-ASSISTED DRAWING)

Teaching Unit: METHODOLOGY 3 **Number of**

Credits: 3. **Coefficient**

:2.Total weekly hourly volume: 3 hours

- **Courses (number of hours per week):** 0h00.
- **Tutorials (number of hours per week):** 0h00
- **Practical work (number of hours per week):** 3 hours

Description of the teaching subject

Prerequisites:

- Basic knowledge of the Windows environment;
- Some basic knowledge of geometry and mathematics.

General objective of the teaching subject:

Possess and assimilate the knowledge necessary to create 2D drawings.

Learning Objectives:

At the end of the semester, the student will be able to:

- Use essential drawing commands;
- Know how to edit a drawing;
- Know how to quote;
- Prepare the drawing for printing.

Content of the teaching subject

The content of this subject concerns the learning of drawing software, namely AutoCad, distributed as follows:

- Presentation and introduction to AutoCad;
- Creation of new files / Layer management;
- The basics of entry in Autocad;
- The coordinate system;
- The selection of objects;
- The main drawing commands;
- The main modification commands;
- The blocks;
- Hatching and dressing;
- Introduction to quotation / Text.

Evaluation methods

Nature of control	Weighting in %
Exam	50%
Continuous	50%
Total	100%

References & Bibliography

GOUSSET Jean-Pierre, CAPDEBIELLE Jean-Claude, PRALAT René(2011), Quantity measurement: CAD-CAD with Autocad, price study, ed. Eyrolles, Paris.

KREBS Jan(2007), Basics CAD CAD, ed. Birkhäuser, Berlin.

HIT HIM Olivier, GOUEZ Jean-Yves(2017), AutoCAD 2018: Design, 2D and 3D drawing, presentation, ed. Eni, Paris.

Identification of the teaching subject

Title: BUILDING EQUIPMENT

Teaching Unit: METHODOLOGY 3 Number of

Credits: 3 Coefficient

:2Total weekly hourly volume: 3h00

- Course (number of hours per week): 1h30
- Tutorials (number of hours per week): 1h30
- Practical work (number of hours per week): 0h00

Description of the teaching subject

Prerequisites:

- Electricity, physics, building physics
- Fluid mechanics.

General objective of the teaching subject:

Help the student finalize the technical trades of a project (lighting, heating, air conditioning, etc.).

Content of the teaching subject

1- Lighting:

- Basic photometric quantities: luminous flux, luminous intensity, illuminance, etc.
- Approach to determining a preliminary lighting project.
- Information necessary for establishing a preliminary lighting project

2- Air conditioning:

- Calculation of the heat balance (heat input).

3- Heating:

- Calculation of the heat balance (losses).

Evaluation methods

Nature of control	Weighting in %
Exam	50%
Continuous	50%
Total	100%

References & Bibliography

- 1- The Recknagel, “practical manual of climate engineering”.
- 2- Reitchell, Treatment and practice of heating and ventilation.
- 3- Mémotech, energy engineering.
- 4- Practical calculations for SANITARY BLOMBERG (cold water-hot water-evacuation).
- 5- Regulations and lighting.
- 6- Roger Cadiergues, THE BASICS OF LIGHTING.**
- 7- Lighting technical manual.

Identification of the teaching subject

Title: STATISTICS 2

Teaching Unit: METHODOLOGICAL 3 Number of Credits: 3. Coefficient: 1.

Total weekly hourly volume: 3:00 a.m.

- Course (number of hours per week): 1h30.
- Tutorials (number of hours per week): 1h30
- Practical work (number of hours per week): 0h00

Description of the teaching subject

Prerequisites: statistic 1; mathematical ;

General objective of the teaching subject:

The educational objective of this course is to present different uses of statistics in the study of work. It aims to provide basic tools for constructing, exploiting, interpreting and criticizing statistical data on work.

Content of the teaching subject

- arithmetic progression, geometric progression, logarithm and exponential.
- •descriptive statistics: graphs: graphic representation of a series of data, the concentration curve and the gini index.
- •Descriptive statistics: Statistical mastery of the process: (MSP): the statistical tool terminology descriptive statistics probabilities statistics and decision making the bases of the histogram with the average normal law, standard deviation normal law and normality verification of normality maps control.
- •Statistics technique: introduction to elements of statistics and probability calculation. Descriptive statistics with varied graphic representations: histograms, boxplots, distribution function. Numerical summaries: central tendency parameters...
- • Descriptive statistics objectives: provide tools and precise language to describe a statistical population (collection of objects, group of people,

of companies, set of dates, etc.). Calculate the characteristics of a 'representative individual' of the population...

Evaluation methods

Nature of control	Weighting in %
Exam	50%
Continuous	50%
Total	100%

References & Bibliography

- Olivier Gaudoin, Statistical Principles and Methods, Ensimag - 2nd year, Grenoble
- Dagnelie P., Theoretical and applied statistics, 2nd Edition, De Boeck University, 2007.
- Dalgaard P., Introductory Statistics with R, 2nd edition, Springer, 2008.
- Lejeune M., Statistics, theory and its applications, Springer, 2004.
- Montgomery DC, Runger GC, Applied Statistics and Probability for Engineers, 4th Edition, Wiley, 2007.
- Morgenthaler S., Introduction to statistics, 3rd Edition, Presses polytechniques et universitaire romandes, 2007.
- Saporta G., Probabilities, data analysis and statistics, 2nd Edition, Technip, 2006.

EU wording: DISCOVERY/TRANSVERSAL TEACHING UNIT 3
Sector :City professions
Speciality : Operational Project Management
Semester : 03

Identification of the teaching subject

Title: ECONOMY 1

Teaching Unit: DISCOVERY / TRANSVERSAL 3 Number of

Credits: 1. Coefficient : 1.

Total weekly hourly volume: 1h30

- Course (number of hours per week): 1h30.
- Tutorials (number of hours per week): 0h00
- Practical work (number of hours per week): 0h00

Description of the teaching subject

Prerequisites:

General culture.

General objective of the teaching subject:

Knowledge of the fundamental principles of economics: its object, its method, its agents, etc. as well as those of business management: production, costs, the environment, organization, etc.

Learning Objectives:

Control all internal and external variables involved in the management of the construction company: production capacity, cost price, human resources, materials, market, competition, legislation, etc.

Also be able to evaluate the cost of carrying out a project, present a price offer...

Content of the teaching subject

Chapter 1: Economic science

- The principles
- The object of economic science;
- The method of economic science;
- The main trends in economic science;
- Economic agents.

Chapter 2: The company

- The company, economic unit of production;
- The company ensures the primary distribution of income;
- The production function, costs, scale costs;
- The company, a social unit;
- The company, center of economic decision-making.

Chapter 3: The company and its environment

- Business environment ;
- The environment sources of opportunities and threats;
- Relations with other companies;
- The local and regional environment;
- Interactions between business and environment.

Chapter 4: The organization of the company

- The basic elements of the organization;
- The structure ;

Organization theories: the classical school, the human relations movement, the social systems movement, systemic analysis.

Chapter 5: Public markets

- Public procurement codes;
- Public procurement delegations;
- Public procurement texts and regulations;
- Public procurement in Algeria;

Evaluation methods

Nature of control	Weighting in %
Exam	100%
Continuous	
Total	100%

References & Bibliography

- Jean LONGATTE and Pascal VANHOVE: General economics. 3rd edition; Dunod.
- Gilles BRESSY and Christian KONKUYT: Business economics. Editions Dalloz.
- Yves WIDLOECHER and David CUSANT: Price study manual - Construction companies. 3rd edition - EYROLLES;

Identification of the teaching subject

TITLE: SOCIOLOGY OF COMMUNICATION

Teaching Unit: DISCOVERY/TRANSVERSAL 3 Number of

Credits: 1

Coefficient : 1

Total weekly hourly volume: 1h30

- Course (number of hours per week): 1.5 hours
- Tutorials (number of hours per week): 0h00
- Practical work (number of hours per week): 0h00

Description of the teaching subject

Prerequisites: Mastery of the Arabic language and foreign languages; French and English, basic notions of communication and its process, knowledge of sociology.

General objective of the teaching subject: Acquisition and development of communication skills, social and professional behavior and mastery of debate and discussion situations as well as the management of work teams.

Learning Objectives: To be able to :

- Lead a team in an environment of quality improvement and change, know how to develop cohesion and involvement in a team;
- Know how to effectively lead work meetings, captivate your listeners, argue, convince and negotiate, unite and manage teams of collaborators or subordinates, etc.;
- Self-knowledge 'the power of communication': techniques, rules, modes, processes and procedures attitudes, dialectical action - leadership, intelligence, resonance, repertoire, tools - emotional reality of teams - behavior in front of the public, how to motivate people employees team leadership, professionalism assessment interview, conflict management and negotiation, change support

Content of the teaching subject

This course aims to give students the basics (concepts, authors, theories) of the sociology of communication.

THEORIES & CONCEPTS OF COMMUNICATION

- Definition and generalities of the sociology of communication
- The definition of social behavior
- The definition of professional behavior
- Communication skills
- Types of communication
- The stages of communication
- Means of communication

THE FOUNDATIONS AND TOOLS ANALYSIS OF THE PHENOMENA OF COMMUNICATION IN CONTEMPORARY SOCIETY.

- Emerging social sciences facing the development of mass media
- First contemporary thoughts on communication (crowd, public, propaganda)
- American empirical sociology: the rise of “Mass Media Research”
- Symbolic interactionism: the orchestral model from Chicago to Palo Alto
- The return of media effects theory
- Social movements facing the media
- Communication techniques: precision of objectives, content, organization of ideas (introduction, title, duration, methodology, methods or software used, conclusion),

THE PROFESSIONALIZATION OF COMMUNICATION

- Time management

Evaluation methods

Nature of control	Weighting in %
Exam	100%
Other (s) to be specified)	
Total	100%

References & Bibliography

Eric MAIGRET (2003), Sociology of communication and media
Paris, Éditions Armand Colin, Coll. "U".

Eric MAIGRET(2003), Sociology of communication and media, Paris, Éditions Armand Colin,
Coll. "U".

Jean-Paul Fourmentraux(2009). THE WORK IN THE MAKING Sociology of communication
and creative exchanges in the digital age, HAL Id: halshs-00372591 <https://halshs.archives-ouvertes.fr/halshs-00372591>

Anne Marie(1979), Laulan The sociology of communication [Communication & Languages](#)

AKRICH M.(1990), "From the sociology of techniques to a sociology of uses. The impossible
integration of the video recorder into first generation cable networks", Techniques et Culture,
number 16: 83-110

Aldrin Philippe et al. (dir.)(2013), The worlds of "public communication", Presses universitaire de
Rennes,.

Aldrin Philippe (2006), Political sociology of rumors, Presses universitaire de France, 2005. Balle
Francis, Media and societies, Montchrestien,.

Cabin Philippe (dir.),Communication: state of knowledge, Ed. Human Sciences, 2005.

Identification of the teaching subject

TITLE: FOREIGN LANGUAGE -3

Teaching unit: Transversal 3

Number of Credits: 1 Coefficient

:1Total weekly hourly volume: 1 hour

- Course (number of hours per week): 1.5 hours
- Tutorials (number of hours per week): 0h00
- Practical work (number of hours per week): 0h00

Description of the teaching subject

Prerequisites: LE1 (S2)

General objective of the teaching subject: Promote language learning by proposing a coherent articulation between the different areas of communication (written, oral and visual).

Content of the teaching subject

- Presentations to provide information on various topics:
 - Scientific popularization
 - The summary
 - The plan
- Dialogue to make yourself and others known
 - The interview
 - The question sheet
 - The oral presentation
 - The personal letter
- Arguing to defend or refute a point of view
 - The argumentative speech
 - Argumentative speech plans
 - The summary
 - The administrative letter

Evaluation methods

Nature of control	Weighting in %
Exam	100%
Continuous	
Total	100%

References & Bibliography

10. Piolat, A. "Towards improving text writing." Accreditation file to direct research. University of Provence (1990).
11. Ollivier, C. "Theory of text editing." Accessed at "<http://eurofle.files.wordpress.com/2009/03/theories.pdf>" (May 31, 2013).
12. Moffet, Jean-Denis. I think, therefore I write: guide to writing informative texts. Editions of Educational Renewal, 1993.
13. Fillon, Pierre, and Anne Vérin. "Writing to understand science." Aster, 2001, 33 "Writing to understand science" (2001).
14. Giasson, Jocelyne. "Reading." From theory to practice 1 (1995).
15. Crinon, Jacques, and Brigitte Marin. "Learn to write explanatory texts in a collaborative revision situation." Communication at the international conference "From France to Quebec, Scripture in all its states", Poitiers. 2008.
16. Combettes, Bernard. "Text types and language facts." Practices 56.5 (1987).
17. Alcorta, Martine. "Use of draft and development of writing skills." Revue française de pédagogie (2001): 95-103.
18. Vandendorpe, Christian. "Beyond the sentence: the grammar of the text." 1995.

EU wording: FUNDAMENTAL EDUCATIONAL UNIT 4

Sector :City professions

Speciality : Operational Project Management

Semester : 04

Identification of the teaching subject

TITLE: PLANNING-2

FUNDAMENTAL Teaching Unit 4 Number of

Credits: 5

Coefficient

:3Total weekly hourly volume: 3h00

- Course (number of hours per week): 01h30
- Tutorials (number of hours per week): 1.5 hours
- Practical work (number of hours per week): 00:00

Description of the teaching subject

Prerequisites:

Prior knowledge in the theory of planning, organization and management of construction sites and on the elements of a project (work).

General objective of the teaching subject:

Mastery of calculating durations and timing tasks. Mastery of the operational organization and programming of the execution of work on a construction site while respecting deadlines and construction standards. Mastery of different types of schedules. Make programming based on work time, materials, labor and material supply.

Learning Objectives:

Be able to calculate durations and determine the human and material resources necessary for carrying out a construction. Be able to do programming based on work time, materials, labor and the supply of materials to complete a work while respecting the planned deadlines.

Content of the teaching subject

Chapter 1: Calibration programs

- Wedging as soon as possible;
- Early calibration data;
- The minimum calibration date;
- Antecedent and successor counters;
- Process as soon as possible;
- Setting at the latest;
- Process at the latest;
- Exercises.

Chapter 2: Calendars and Margins

- Calendars
- Definition ;
- The operational schedule;
- The contractual schedule;
- The total margin;
- The critical path;
- The distributed margin;
- The other margins;
- Exercises.

Chapter 3: Application: development of schedules (progress of work, materials, labor and supplies) for the completion of the main works of a construction

- Establishment of the quantitative estimate for the structural works;
- Calculation of durations and staff numbers;
- Calibration and development of different schedules

Evaluation methods

Nature of control	Weighting in %
Exam	50%
Continuous	50%
Total	100%

References & Bibliography

- ÉMILE OLIVIER: Practical organization of construction sites VOLUME-1. Modern Publishing Company 6th updated edition;

- ÉMILE OLIVIER: Practical organization of construction sites VOLUME-2. Modern Publishing Company 6th updated edition;
- Patrick ESQUIROL and Pierre LOPEZ: Scheduling. ECONOMICA;
- VATTEVILLE E : measures of the resources humans And management of the company.ECONOMICA;
- WOOT Ph: high-tech companies and Europe. ECONOMICA;

Identification of the teaching subject

TITLE: CONSTRUCTION 2

Teaching Unit: FUNDAMENTAL 4 Number

of Credits: 5 Coefficient

:3Total weekly hourly volume: 3h00

- Course (number of hours per week): 1h30
- Tutorials (number of hours per week): 1h30
- Practical work (number of hours per week): 0h00

Description of the teaching subject

Prerequisites: mathematics, construction site and its components; building material; construction1

General objective of the teaching subject: The objective is to introduce the student to the different constructions and functioning of structures, and the fundamental parts that compose them; the balance and response of constructions to actions.

Learning Objectives: Give the student knowledge about the behavior of constructions with respect to actions.

Content of the teaching subject

- 1- Introduction
- 2- Types of linear element constructions
 - 2-1- Portal constructions
 - 2-2- Portal construction with intermediate floor
 - 2-3- Tiered frame constructions
 - 2-4- Vertical stability.
- 3- Surface construction.
 - 3-1- Tables and benches.
 - 3-2- Tunnel system.
 - 3-3- climbing formwork
- 4- Bracing systems. 5- Seismic behavior.

Evaluation methods

Nature of control	Weighting in %
Exam	50%
Continuous	50%
Total	100%

References & Bibliography

Algerian reinforced concrete code CBA93

SIA D0191 (2004) Basis for the development of load-bearing structure projects/Actions on load-bearing structures: Examples of sizing according to SIA260 and 261 standards. SIA documentation. Swiss Society of Engineers and Architects, Zurich.

SIA 162 (1989), Concrete construction. Standard. Swiss Society of Engineers and Architects, Zurich. *Georges Dreux, "Practical calculation of reinforced concrete. BAEL 80 rules", Eyrolles, 1981.*

Guerrin and RC Lavour, "Reinforced concrete treaty; General experimental mechanical properties of reinforced concrete, Volume 1", Dunod, 1973.

Jean Pierre Mougín, "Reinforced concrete, BAEL 91 modified 99 and associated DTU", Eyrolles, 2000.

M. Albiges and M. Mingasson, "Theory and Practice of reinforced concrete in limit states", Eyrolles, 1981.

BAEL 91 rules, "Technical rules for the design and calculation of reinforced concrete works and constructions using the limit states method", Eyrolles, March 1992.

Renaud and F. Letertre, "Reinforced concrete structures", Foucher, 1985.

Eurocode 2, Design of concrete structures - Part 1-1: general rules and regulations for buildings, NF EN 1992-1-1 October 2005.

Christian Albouy, "Eurocode2: reinforced concrete - simple elements", CERPET – STI, 2007.

JA Calgaro, "Applications of Eurocode 2 – Design of concrete buildings", bridges and roads, 2007.

Identification of the teaching subject

TITLE: PROJECT 4

Teaching unit: FUNDAMENTAL 4.. Number of Credits: 8 Coefficient: 4.

Total weekly hourly volume: **6:00 a.m.**

- Courses (number of hours per week): 00
- Directed work (number of hours per week): 00
- Practical work (number of hours per week): 6 hours

Description of the teaching subject

Prerequisites:

Have fundamental knowledge in:

- Graphic and oral expression tools;
- Geometry and mathematics.

General objective of the teaching subject:

- Moving from reading an architectural file to preparing an execution file: civil engineering and CES
- Moving from the preparation of an execution file: architecture, civil engineering and CES to the quantitative evaluation of a project, the quantity survey.

Learning Objectives:

At the end of the year, the student will be able to:

- Master the knowledge allowing the reading of an execution file;
- Master the graphic documentation constituting an execution file;
- Getting started with quantity surveying (quantification, estimation and description)

Content of the teaching subject

- Preparing an execution file

Objective : There proposal of a case of execution has leave of a statement of architecture going through the following phases:

- The drawing of different architectural plans for an execution file;
- The drawing of the different formwork plans based on the architectural plans;
- The drawing of different plans making up the CES files based on observation.
- The proposal for a quantitative estimate of the execution project including the architectural, civil engineering and CES lots, referring to the architectural, civil engineering and CES plans produced.

Evaluation methods

Nature of control	Weighting in %
Exam	
Continuous	100%
Total	100%

References & Bibliography

1. MINISTRY OF TOWN PLANNING AND CONSTRUCTION, Development of subdivisions (recommendations). Ed. OPU, Algiers 2003. Collection of architecture and town planning.
2. MINISTRY OF HABITAT, Architectural recommendations. Ed. ENAG, Algiers 1993.
3. RENAUD H., Technical drawing: Plan reading. Ed. Foucher, Paris 1996.
4. BAUD Gérard, Building construction: masonry and reinforced concrete. Dunod, Lausanne, 1988.
5. PAULIN Michel, Illustrated vocabulary of construction. Ed. Le Moniteur, Paris 2004.
6. YAMANI Lakhdar, Construction course. Ed. OPU
7. Building: construction manual, Romandes, Lausanne, 1999.
8. Building technology, Eyrolles, Paris, 1986.
9. The reinforced concrete project, SEBTP, Paris, 2005.
10. Establishing a building project, Eyrolles, Paris, 1985.
11. Aide-mémoire of the structural work of the building, Dunod, Paris, 1977.

Evaluation methods

Nature of control	Weighting in %
Exam	50%
Other (s) to be specified)	50%
Total	100%

References & Bibliography

RDM memory aid (Pissarenco, Ed Moscow)
Structural analysis (Med. Osman Zakaria 1986-OPU Algiers)
Construction statistics (Dobrescu –Alexandru OPU Algiers) Dobrescu
C and Alexandru “Construction statistics” (OPU 1992)
J.C Doubrère “Practical course on resistance of materials” (Edition Eyrolles 1979)
Anissimov, Djilali Berkene, Strakhov “Buckling-isostatic systems of bars” (OPU
1987)
Pissarenco “RDM memory aid” (Ed Moscow)
Med. Osman Zakaria “Analysis of structures” (1986-OPU Algiers)
Dobrescu –Alexandru “Static of constructions” (OPU Algiers) Goulet
Jean “Resistance of materials”

Identification of the teaching subject

TITLE: SITE AND ITS COMPONENTS

Teaching Unit: METHODOLOGY 4 Number of

Credits: 3

Coefficient: 2

Total weekly hourly volume: 3:00 a.m.

- Course (number of hours per week): 1h30
- Tutorials (number of hours per week): 1 h 30 min
- Practical work (number of hours per week): 0h00

Description of the teaching subject

Prerequisites:

Have knowledge of the construction project and the different phases and stages of project completion.

General objective of the teaching subject:

Develop analytical skills in the learner on the construction site and its management

Learning Objectives:

- Acquire general knowledge on site preparation.
- Understand the basic principles associated with project management.
- Know the means of prevention and safety - hygiene measures
- Develop a site installation plan
- Analyze Planning of preliminary operations for the start of construction

Content of the teaching subject

I. THE PRELIMINARY STEPS AT THE SITE

1. Presentation of the participants in the construction site
 - 1.1. The project owner
 - 1.2. The delegated project owner
 - 1.3. The master craftsman

- 1.4. The technical controller
 - 1.5. The construction company
 - 1.6. The subcontractor
2. The phases and stages of a construction project

J. PREPARING THE SITE

1. Administrative measures
 - 1.1. The building permit
 - 1.2. The demolition permit
 - 1.3. The regulatory declaration of construction site opening
 - 1.4. Water and energy connections
 - 1.5. The site start-up file
 - 1.6. The insurance
2. Health and hygiene safety measures
 - 2.1. Security
 - 2.2. Hygiene
3. Organizational measures
 - 3.1. Land use
 - 3.2. Demarcation of the site perimeter
 - 3.3. The site installation plan

K. THE LOCATION OF THE SITE

1. Construction site fencing and signage
2. Access and circulation roads
3. Site premises

Evaluation methods

Nature of control	Weighting in %
Exam	50%
Continuous	50%
Total	100%

References & Bibliography

1. Guide to the organization and monitoring of construction sites - Ministry of Housing and Town Planning - September 2006.
2. Construction site course and its components - Mr. Amiraoui – Project Management department.
3. PUBLIC WORKS SITE MANAGEMENT MANUAL The method - Tools - Jean-Marie VACHAL - 2002.
4. Construction site equipment and materials, implementation, standardization-
5. Memorandum for the implementation of works of art - MEMOAR - collection of technical sheets - sheet N 7 site installations

Identification of the teaching subject

Title: METER AND QUANTIFICATION

Teaching Unit: METHODOLOGY 4 Number of

Credits: 3 Coefficient: 1

Total weekly hourly volume: 3:00 a.m.

- Course (number of hours per week): 1h30
- Tutorials (number of hours per week): 1h30
- Practical work (number of hours per week): 00h

Description of the teaching subject

Prerequisites: mathematical ; construction site and its components; construction, equipment, descriptive geometry

General objective of the teaching subject: This course aims to provide detailed information to familiarize yourself with the different concepts, approaches and methods of calculating the quantities of work; and to improve the use of project documents as part of decision-making support.

Learning Objectives:

- Preparation of quantitative figures for achievements on site.
- Development of quantitative figures; estimates of achievements.
- Preparation of written technical and administrative documents assigned to the quantities of work.

Content of the teaching subject

Chapter 1: quantity surveying and the profession of project economist

1. GENERALITY of METER
2. THE SURFACE SURVEY'S MISSIONS
3. ASSISTANCE TO THE WORK OF MASTERY
4. IN CO-DESIGN IN THE MULTIDISCIPLINARY PROJECT MANAGEMENT TEAM
5. ON BEHALF OF COMPANIES
6. COORDINATION
7. SPECIAL MISSIONS

8. METER METHODOLOGY
9. QUANTIFICATION OF WORK
10. SIGN, SYMBOL, AND UNIT OF MEASUREMENT.
11. PERIMETER, SURFACE, VOLUME AND CAPACITY
12. VERIFICATION

Chapter 2: ATTACHMENT.

1. DEFINITION
2. PURPOSE OF AN ATTACHMENT
3. DEVELOPING AN ATTACHMENT
 - a. Written attachment:
 - b. Drawn attachment:
4. EXAMPLE OF ATTACHMENT
5. CAS: A statement of the work carried out in accordance with the contract
6. CASE: The execution of works or structures which cannot be verified subsequently
7. CASE: The execution of works or structures modified in relation to the contract

Chapter 3: QUANTITATIVE ESTIMATE

1. DEFINITION
2. PURPOSE OF A QUANTITATIVE ESTIMATE
3. PREPARATION OF A QUANTITATIVE ESTIMATE.
4. EXAMPLE OF A QUANTITATIVE QUOTE

Evaluation methods

Nature of control	Weighting in %
Exam	50%
Continuous	50%
Total	100%

References & Bibliography

Order of 15/12/1986 (JORA No. 18 of 29/04/1987) relating to the method of calculating the prices of construction work.

EU wording: TRANSVERSAL DISCOVERY TEACHING UNIT 4
Sector :City professions
Speciality : VSOperational Project Management
Semester : 04

Identification of the teaching subject

Title: ECONOMY 2

Teaching Unit: TRANSVERSAL DISCOVERY 4 Number of

Credits: 1 Coefficient : 1

Total weekly hourly volume: 1h30

- Course (number of hours per week): 1h30
- Tutorials (number of hours per week): 0H00
- Practical work (number of hours per week): 00h00

Description of the teaching subject

Prerequisites:

General knowledge, economics 1

General objective of the teaching subject:

Knowledge of the fundamental principles of economics: its object, its method, its agents, etc. as well as those of business management: production, costs, the environment, organization, etc.

Learning Objectives:

Control all internal and external variables involved in the management of the construction company: production capacity, cost price, human resources, materials, market, competition, legislation, etc.

also be able to evaluate the cost of carrying out a project, to present a price offer...

Content of the teaching subject

Chapter 1: The diversity of companies

- The diversity of activities;
- The diversity of dimensions;
- The diversity of legal statuses

Chapter 2: Taxation

- VAT ;
- Income tax;
- Corporate tax
- Other taxes.

Chapter 3: Administrative and financial management of projects

- Coordination in the daily management of project activities;
- The accounting system with the maintenance and production of project financial statements;
- Application of procedures for stocks and equipment acquired with project funds;
- Verification of compliance and consistency with donors' procedural rules;
- Management and training of new administrative and financial managers of the project
- Human Resource Management ;

Chapter 4: The construction company

- The activities of the construction company;
- The elementary work;
- The presentation of the quantitative;
- The price offer

Evaluation methods

Nature of control	Weighting in %
Exam	100%
Continuous	
Total	100%

References & Bibliography

- Jean LONGATTE and Pascal VANHOVE: General economics. 3rd edition; Dunod.
- Gilles BRESSY and Christian KONKUYT: Business economics. Editions Dalloz.
- Yves WIDLOECHER and David CUSANT: Price study manual - Construction companies. 3rd edition - EYROLLES;

Identification of the teaching subject

TITLE: BUSINESS SOCIOLOGY

Teaching Unit: DISCOVERY / TRANSVERSAL 4 Number of

Credits: 1

Coefficient : 1

Total weekly hourly volume: 1h30

- Course (number of hours per week): 1.5 hours
- Directed work (number of hours per week): 0h0
- Practical work (number of hours per week): 0h00

Description of the teaching subject

Prerequisites: Culture in human and social sciences.

General objective of the teaching subject:

The main objective is to understand and explain the functioning and dynamics of today's companies, that is to say the human and social bond in its three essential aspects: highlighting the actors and their logic of conduct, the creation of rules by the group of actors to act, and the meaning to their experience given by individuals

Learning Objectives:

Learners must:

- know the place of actors and people in the future of companies and work relationships and their consideration in professional practice whether they become project managers or project leaders.

So they must understand that the company presents itself as follows:

- Like a production unit that was established over time,
As an organization which houses actors, socio-technical systems,
exchanges, rules and contracts,
- As an institution assigned responsibilities (citizen, social, educational), in its relationships with society, and with other institutions (school, family, culture, religion)

Content of the teaching subject

- Reminder sociology of work.
- Sociology of organizations
- Sociology of the company:
 - **Definition of business sociology**
 - **The central place of actors in the company**
 - **Emerging transformations in business and work**
 - Models and methods for analyzing social work relations in organizations
 - Application of models and methods to concrete cases during tutorials.

Evaluation methods

Nature of control	Weighting in %
Exam	100%
Continuous	
Total	100%

References & Bibliography

Lucie Tanguy(2011), The Sociology of Work in France, Paris, La Découverte, “Research” collection, 272 pages, chapter 10, “The launch of a sociology of business”

Encyclopædia Universalis“Sociology of business”

Guy MINGUET(), BUSINESS SOCIOLOGY, Department of Human and Social Sciences
LIMINARY

Guy Minguet and Christian Thuderoz (direction) (2004), Work, businesses and society, Sociology manual for engineers and scientists, Paris, PUF, Social Sciences and Society Collection). Bernoux P.

(1995), The sociology of businesses, Paris, Seuil, (Pocket Essay Points)

Bernoux P. (1994), The sociology of organizations, Paris, Seuil, (Points Essais Poche) Thuderoz

C., (1996), Sociology of businesses, Paris, La Découverte.

FIJALKOW Yankel(2002), Sociology of the city, La Découverte, Paris.

DURKHEIM Émile (1973), The Rules of Sociological Method, Paris, Presses universitaire de France.

LEDRUT Raymond (1979), Urban sociology, PUF, Paris.

Identification of the teaching subject

TITLE: FOREIGN LANGUAGE -4

Teaching unit: Transversal 4

Number of Credits: 1 Coefficient

:1Total weekly hourly volume: 1h30

- Course (number of hours per week): 1.5 hours
- Tutorials (number of hours per week): 0H00
- Practical work (number of hours per week): 0h00

Description of the teaching subject

Prerequisites:

Basic knowledge of French

Prerequisites: LE1 (S3)

General objective of the teaching subject:Support the learning of the French language through oral and written expression activities as part of educational projects. These activities aim to decompartmentalize the various aspects to be taken care of for this learning: grammar (lexicon, syntax), the organization of texts and the constraints linked to communication situations

Learning Objectives:

Development of technical communication and written and oral expression skills in project mode

Content of the teaching subject

- Relate an event in relation to your experience:
 - The news item
 - The summary
 - Reading sheet
- Recount a fictional event
 - Organize a chronological story
 - Determine the acting forces

Enrich stories with descriptive statements and sayings

Evaluation methods

Nature of control	Weighting in %
Exam	100%
Continuous	
Total	100%

References & Bibliography

19. Piolat, A. "Towards improving text writing." Accreditation file to direct research. University of Provence (1990).
20. Ollivier, C. "Theory of text editing." Accessed at "<http://eurofle.files.wordpress.com/2009/03/theories.pdf>" (May 31, 2013).
21. Moffet, Jean-Denis. I think, therefore I write: guide to writing informative texts. Editions of Educational Renewal, 1993.
22. Fillon, Pierre, and Anne Vérin. "Writing to understand science." Aster, 2001, 33 "Writing to understand science" (2001).
23. Giasson, Jocelyne. "Reading." From theory to practice 1 (1995).
24. Crinon, Jacques, and Brigitte Marin. "Learn to write explanatory texts in a collaborative revision situation." Communication at the international conference "From France to Quebec, Scripture in all its states", Poitiers. 2008.
25. Combettes, Bernard. "Text types and language facts." Practices 56.5 (1987).
26. Alcorta, Martine. "Use of draft and development of writing skills." Revue française de pédagogie (2001): 95-103.
27. Vandendorpe, Christian. "Beyond the sentence: the grammar of the text." 1995.

EU wording: FUNDAMENTAL EDUCATION UNIT 5

Sector :City professions

Speciality : Operational Project Management

Semester : 05

Identification of the teaching subject

TITLE: ORDERING DEADLINE MANAGEMENT

Teaching Unit: FUNDAMENTAL 5 Number of

Credits: 5. Coefficient

:3.Total weekly hourly volume: 3h00

- Course (number of hours per week): 01h30
- Tutorials (number of hours per week): 1.5 hours
- Practical work (number of hours per week): 00H00Mn

Description of the teaching subject

Prerequisites:

Prior knowledge of quantity surveying, construction site and its components, phases of building construction, planning.

General objective of the teaching subject:

Mastery of the operational organization of work in factories, planning of major projects, organization of service activities, as well as mastery of the dynamic allocation of resources. Mastery of coordinating execution and coherent use of necessary resources.

Learning Objectives:

Being able to divide and order the tasks retained for the realization of a project, a work or an element of work while respecting the chronological and logical order of these tasks as well as respecting the constraints imposed by the customer. Able to resolve the problem of conflicts (limited resources) and coordinate between different trades.

Content of the teaching subject

Chapter 1: The scheduling function

- introduction;
- work breakdown and scheduling;
- organizational structures and scheduling;
- control of the scheduling function;
- conclusion.

Chapter 2: Fundamental elements

- Central problem position;
- Tasks ;
- The resources;
- Modelization ;
- Resolution method;
- Presentation of solutions;
- General characteristics of orders;
- conclusion.

Chapter 3: Project scheduling

- Problem position;
- Elements of graph theory;
- Modeling of the central problem;
- Solving the central problem;
- Extension of the central problem;

Chapter 4: Workshop scheduling

- Introduction;
- Basic model;
- Problem with a machine;
- Parallel machine problem;
- Single path workshop;
- Multiple path workshop;
- Free-flow workshop;
- Dynamic context.

Chapter 5: Scheduling under cumulative resource constraints

- Introduction;
- Serial methods;
- Analysis under constraints;
- Resolution by separation and evaluation;
- Scheduling of a limited-cost project.

Evaluation methods

Nature of control	Weighting in %
Exam	50%
continuous	50%
Total	100%

References & Bibliography

- Patrick ESQUIROL and Pierre LOPEZ: Scheduling. ECONOMICA;
- VATTEVILLE E : measures of the resources humans And management of the company.ECONOMICA;
- WOOT Ph: high-tech companies and Europe. ECONOMICA;
- ÉMILE OLIVIER: Practical organization of construction sites VOLUME-1. Modern Publishing Company 6th updated edition;
- ÉMILE OLIVIER: Practical organization of construction sites VOLUME-2. Modern Publishing Company 6th updated edition;

Identification of the teaching subject

Title: QUALITY TOOLS

Teaching Unit: FUNDAMENTAL 5 Number of

Credits: 5. Coefficient

:3.Total weekly hourly volume: 3h00

- Course (number of hours per week): 01h30
- Tutorials (number of hours per week): 1.5 hours
- Practical work (number of hours per week): 00:00

Description of the teaching subject

Prerequisites:

Basic knowledge in:

- Project management;
- The process of a project

General objective of the teaching subject:

At the end of these courses, the student is expected to understand the interests, obligations and constraints of a quality approach, and to identify the main standard requirements, the associated tools, the costs and the customer impact.

Content of the teaching subject

- Definitions, concepts and roles;
- The classic quality tools:
 - The statement sheet
 - The Pareto chart;
 - The Ishikawa diagram;
 - The MOFF matrix;
 - The weighted voting method;
 - The flowchart;
 - The accounting matrix;
 - The QQQCCP methodology;
 - The five whys methodology;
 - “Brainstorming” meetings;
 - The “Metaplan” method;
 - Summary table.
- The project dashboard.

- Total quality management;
- Quality management of construction processes, statistical quality control;
- ISO 9000 standardization in construction. Algerian unified technical documents.

Evaluation methods

Nature of control	Weighting in %
Exam	50%
continuous	50%
Total	100%

References & Bibliography

- AÏM Roger**(2013), The essentials of project management, Ed. Lextenso, Paris.
- Wendy BRINER - Michael GEDDES - Colin HASTINGS**, The project manager: a leader, Ed. AFNOR.
- Michel JOLY - Jean-Louis MULLER**,*From project management to project management*, Ed. AFNOR.
- J. Davidson FRAME**,*The new project management*,Ed. AFNOR.
- Olivier d'HERBEMONT - Bruno CESAR**,*The lateral project strategy*,Ed. DUNOD. Jon KATZENBACH - Douglas SMITH, High performance teams, Ed. DUNOD. Robert J. GRAHAM, Project management as if people mattered, Primavera Press.
- R. Meredith BELBIN**,*Management Teams: Why they succeed or fail*,Butterworth Heinemann. Project Management Institute, PMBoK Project Management Body of Knowledge ISO 10006 standard.
- Examples of project management systems (practical).**
- NERE Jean-Jacques**(2014), Project management, ed. Itcis, Algiers, 127 p.
- JONCHERAY Hélène & SURUN Emmanuel**(2011), BA-BA of management, ed. Vocatis, Paris, 186 p.

Identification of the teaching subject

Title: PROJECT 5

Teaching Unit: FUNDAMENTAL 5. Number of Credits: 8.

Coefficient:4

Total weekly hourly volume: 6 hours

- Courses (number of hours per week): 0H00.
- Tutorials (number of hours per week): 0H00
- Practical work (number of hours per week): 6 hours

Description of the teaching subject

Prerequisites:

- Quantity surveying techniques;
- CAD;
- Planning.

General objective of the teaching subject:

At the end of the year, the student will be able to master the entire process of a construction project and manage the knowledge relating to this process.

Learning Objectives:

At the end of the 1st semester, the student will be able to:

- Study, understand and retrace the process of a construction operation;
- Identify the different stakeholders and the role of each;
- Understand and analyze technical parts and contractual documents;
- Identify probable anomalies.

Content of the teaching subject

For the first semester, the teacher is called upon to support the student in their choice of project, guide them and supervise the work on the basis of the following points:

- Collection of information relating to the chosen sector;
- Collection of data and information relating to the “case study” project;
- Analysis of the chosen project on several levels:
 - The architectural plan;
 - The technical plan;
 - The Project Management plan.

Choice of project:

Before starting the year, the student is asked to choose a “case study” project which will constitute the support for the two semesters. Students are asked to:

- Choose a project currently in progress;
- Vary the sectors (Tourism, Health, Housing, Culture, Sport, Education, Higher Education, etc.)

- Vary the Directorates/administrations (DEP, OPGI, CTC, URBACO, DSP, etc.)
- Avoid works of art;
- Respect the scale of the project appropriate to the work of the 3rd year License.

Investigation tools:

To achieve the objectives of each semester, the student uses the following tools:

- Observation;
- Interviews with officials and staff of administrations, design offices and companies;
- Field trips;
- Taking photos;

Technical tools:

The student uses a series of computer tools to represent and make their project understood, including:

- A life cycle telling the story of the process;
- A dashboard grouping together events with their deadlines and actors;
- A time axis tracing the chronology;
- A schedule specifying the tasks, their resources and project deadlines;
- Mind mappings representing the approach and content of the work.

Evaluation methods

Nature of control	Weighting in %
Exam	
continuous	100%
Total	100%

EU wording: METHODOLOGICAL TEACHING UNIT 5
Sector :City professions
Speciality : Operational Project Management
Semester : 05

Identification of the teaching subject

TITLE: SITE ORGANIZATION

Teaching unit: METHODOLOGY 5 Number of

Credits: 3 Coefficient

:2 Total weekly hourly volume: 3h00

- Course (number of hours per week): 01H30Mn
- Tutorials (number of hours per week): 01H30Mn
- Practical work (number of hours per week): 00:00

Description of the teaching subject

Prerequisites:

Prior knowledge of the construction site and its components, of construction site materials and its characteristics as well as its yields, in the construction phase and its requirements for equipment, materials and labor

General objective of the teaching subject:

Control of the preparation phase and progressive occupation of the site. The organization and rational occupation of the space reserved for the installation of the site. The development of the site installation plan while respecting safety and economy standards by seeking the best way to use the available means.

Learning Objectives:

Be able to develop a site installation plan while respecting safety standards with the aim of minimizing the time planned for completion and optimizing the yield of installed equipment

Content of the teaching subject

Chapter 1: preparatory studies for the opening of a construction site

- The site and the offer;
- Study of the offer before awarding the price;
- Organization of order execution;

Chapter 2: the exploitation of the organization of work

- The need for work organization
- The productivity;

- the organization of work;
- simplification of work and methods;
- conclusion.

Chapter 3: the central layout of the site

- Development of the site installation plan;
- Documents concerning the mobilization of the site;
- Facility;

Chapter 4: key facilities

- The lifting gear;
- Concrete placing equipment;
- The layout of the reinforcement station facilities;
- Installation of the formwork manufacturing station;
- Installation of the concrete part manufacturing station;
- Application: development of a site installation plan;

Chapter 5: Site safety

- General obligations;
- Workplace safety;
- Scaffolding and ladders;
- Transport, earthmoving and handling machinery;
- Work at heights and on roofs;
- Framing, formwork and concreting work;

Evaluation methods

Nature of control	Weighting in %
Exam	
continuous	100%
Total	100%

References & Bibliography

- ÉMILE OLIVIER: Practical organization of construction sites VOLUME-1. Modern Publishing Company 6th updated edition;
- ÉMILE OLIVIER: Practical organization of construction sites VOLUME-2. Modern Publishing Company 6th updated edition;
- VATTEVILLE E : measures human resources And management of the company.ECONOMICA;
- WOOT Ph: high-tech companies and Europe. ECONOMICA;

Identification of the teaching subject

TITLE: TOPOGRAPHY

Teaching unit: **METHODOLOGY 5**. Number of

Credits: 3 Coefficient

:2 Total weekly hourly volume: 3h00

- Course (number of hours per week): 01H30Mn
- Tutorials (number of hours per week): 01H30Mn
- Practical work (number of hours per week): 00:00

Description of the teaching subject

Prerequisites:

Prior knowledge of mathematics and construction

General objective of the teaching subject:

Acquire the basic knowledge to lay out structures and establish topography plans.

Learning Objectives:

Know how to use a construction telescope to check or transfer levels • know how to use a rotating laser to transfer levels, pour a slab, make a slope • know how to read and use a plan • know how to set up and use a theodolite to carry out layouts of axes and alignments • know good practices to carry out precise and safe layout

Content of the teaching subject

Chapter 1. Basic knowledge

Topographic work
Geographic coordinates and altitudes
Projection systems
General leveling
Topographic observations
Accuracy of observations
The map

Chapter 2. Measuring angles

The theodolite
Accuracy of angle measurements
Measuring a horizontal angle
Measuring a zenith angle Orientation

Chapter 3. Distance measurements

- Tape measurement
- Optical measurement
- Electronic measurement
- Chapter 4.**Leveling Ordinary direct leveling
 - Precision geometric leveling Geodetic leveling
 - Trigonometric leveling
 - Stadimetric leveling.
 - Leveling canvas
- Chapter 5.**Overall canvas
 - Characteristics
 - Determination by isolated points or “point by point
 - Chronology of the work.
- Chapter 6.** Polygonal canvas
 - Planimetric paths Open path
 - Framed path Location of spurious errors
 - Nodal point and planimetric nodal paths Closed path
 - Precision polygonal canvas
- Chapter 7.**Survey of details and layouts
 - Survey of planimetric details
 - Relief survey
 - Tacheometry
 - Survey of details by GPS
- Chapter 8.** Specific topographical works Building
 - Public works
 - Underground topography
 - Photogrammetry
 - Bathymetry
 - GIS
- Chapter 9.**Topometric calculations
 - Calculation modes
 - Coordinates
 - Intersections of lines and circles Areas
 - Surface divisions
 - Programming topometric calculation functions Iterative calculations
- Chapter 10. Topographic Drawings**
 - Graphic plans
 - Digital plans
 - Digitized plans
 - Presentation
 - Verification
 - Prints and archiving

Evaluation methods

Nature of control	Weighting in %
Exam	60%
continuous	40%
Total	100%

References & Bibliography

- French Association of Topography, 2000, Topographic Glossary
- Botton S., Duquenne F., Egels Y., Even M., Willis P., 1997, GPS: Location and navigation, National Council for Geographic Information, Static and Dynamic Positioning Group, Hermès.
- Dufour JP, 1999, Introduction to geodesy, National School of Geographic Sciences, National Geographic Institute.
- Henry JB, Malet JP, Maquaire O., Grussenmeyer P., 2002, The use of small format and low-altitude aerial photos for the realization of high-resolution DEMs in mountainous areas. Application to the Super-Sauze earthflow (Alpes-de-Haute-Provence, France), Earth Surface Processes and Landforms, Vol. 27(12), pp. 1339-1350.
- National Geographic Institute, 2000, Geodetic notions necessary for geographical positioning, Technical Notice of the Geodesy and Leveling Service, 28p.<http://www.ensg.ign.fr>

Identification of the teaching subject

TITLE: MANAGEMENT 1

Teaching unit: **METHODOLOGY 5**. Number of

Credits: 3 Coefficient

:1 Total weekly hourly volume: 3h00

- Course (number of hours per week): 01H30Mn
- Tutorials (number of hours per week): 01H30Mn
- Practical work (number of hours per week): 00:00

Description of the teaching subject

Prerequisites:

Economy, French.

General objective of the teaching subject:

Define the contours of a project organization and its room for maneuver - Appreciate the role of the project manager, without formal authority - Develop the performance of your team throughout the project.

Learning Objectives:

Behave like managers and have a vision of action. Understand the issues of each situation through appropriate analyzes and summaries. Create the methodologies necessary for their action to move in any type of professional situation.

Content of the teaching subject

Content of the material:

- The fundamentals of management;
- Mastery of the conditions for project success;
- Effective management and monitoring of the project;
- Animation and motivation of project teams.
- The principles of object value analysis (project');
- Value analysis method;
- Implementation condition;
- The dynamics of success and sustainability;
- The impact on the entire company;
- Current and future trends.

Evaluation methods

Nature of control	Weighting in %
Exam	60%
continuous	40%
Total	100%

References & Bibliography

ROBBINS S, JUDGE T, Organizational behavior, PEARSON, France, 2006. BUTTRICK Robert, PROJECT MANAGEMENT, Global Village, PEARSON France, 2006.

EU wording: DISCOVERY / TRANSVERSAL TEACHING UNIT 5
Sector :City professions
Speciality : Operational Project Management
Semester : 05

Identification of the teaching subject

TITLE: NICT IN URBAN AND ARCHITECTURAL PROJECTS

Teaching unit:DISCOVERY / TRANSVERSAL 5. Number of

Credits: 1 Coefficient: 1 Total

weekly hourly volume: 1h30

- Course (number of hours per week): 01h30
- Tutorials (number of hours per week): 00:00
- Practical work (number of hours per week): 00:00

Description of the teaching subject

Prerequisites:

Language mastery

General objective of the teaching subject:

Develop the student's interest in the use of information and communication technologies as a tool for validating acquired knowledge and as a method for developing the end-of-study project (PFE)

Learning Objectives:

The objective of this course is to introduce the student to conceptual and operational packages/software in relation to the production of the architectural and/or urban project in all its sequences, from the feasibility study to its completion and implementation. operating.

Content of the teaching subject

Introduction to the IT tools inherent to the disciplines of architecture and town planning with a summary review of software packages & software dedicated to this purpose, namely:

- CAD (computer aided drawing)
- CAD (computer aided design)
- DTP (publication, computer-assisted projection)
- SIAD (interactive decision support system)
- GIS (geographic information system)
- The digital model (BIM) Building information modeling
- WEB meta search engines (cartographic and images)

Make known and explain the area of application of each category with concrete examples as well as the advantages and disadvantages linked to the use of IT tools.

Secondly, each above-mentioned category will be developed and supported by an effective demonstration of a case, the emphasis will be placed on the operability of the IT tools in the life cycle of the project (application/phase)

Evaluation methods

Nature of control	Weighting in %
Exam	100%
continuous	
Total	100%

References & Bibliography

www.lemoniteur.fr
www.batactu.com
www.batiweb.com
www.elephorm.com/3d/tuto-revit-architecture
<http://www.jrohdesign.com/revit/index.html>
www.smartbuilding.com
<http://buildingsmart.org/>

Identification of the teaching subject

TITLED :INTRODUCTION TO DOCUMENTARY RESEARCH AND Dissertation WRITING

Teaching unit:DISCOVERY / TRANSVERSAL 5Number of

Credits:1 Coefficient: 1 Total

weekly hourly volume: 1h30

- Course (number of hours per week): 1h30
- Tutorials (number of hours per week) 00h00
- Practical work (number of hours per week): 00h00

Description of the teaching subject

Prerequisites:foreign language ; Writing methodology, Presentation methodology General objective of the teaching subject: To give the student the necessary tools to search for useful information to better exploit it in their end-of-study project. Help them go through the different stages leading to the writing of a scientific document. Show him the importance of communication and teach him to present the work carried out in a rigorous and educational manner.

Learning Objectives:Give the student knowledge about the design and production of a final dissertation

Content of the teaching subject

Part I:- Documentary research:

- Definition of the subject
- Select information sources
- Locate documents
- Research techniques
- Search operators
- To process information
- Presentation of the bibliography

Part II: Design of thesis

- Plan and stages of the dissertation
- Writing techniques and standards

- Workshop: Critical study of a manuscript
- Oral presentations and defenses
- How to avoid plagiarism?

Evaluation methods

Nature of control	Weighting in %
Exam	100%
continuous	
Total	100%

References & Bibliography

1. *M. Griselin et al., Guide to written communication, 2nd edition, Dunod, 1999.*
2. *JL Lebrun, Practical guide to scientific writing: how to write for the international scientific reader, Les Ulis, EDP Sciences, 2007.*
3. *A. Mallender Tanner, ABC of technical writing: instructions for use, user manuals, online help, Dunod, 2002.*
4. *M. Greuter, Write your dissertation or internship report well, L'Etudiant, 2007.*
5. *Mr. Boeglin, reading and writing in college. From the chaos of ideas to structured text. The Student, 2005.*
6. *M. Beaud, the art of the thesis, Editions Casbah, 1999.*
7. *M. Beaud, the art of the thesis, The discovery, 2003.*
8. *M. Kalika, Master's thesis, Dunod, 2005.*

Identification of the teaching subject

Title: FOREIGN LANGUAGE 5

Teaching unit: DISCOVERY / TRANSVERSAL 5

Number of Credits: 1. Coefficient

:1.Total weekly hourly volume: 1.5 hours

- Course (number of hours per week): 1h30
- Tutorials (number of hours per week): 0h00
- Practical work (number of hours per week): 0h00

Description of the teaching subject

Prerequisites:

Basic English vocabulary and grammar

General objective of the teaching subject: Introduce the student to English. Strengthen your knowledge of the language.

Content of the teaching subject

- written initiation: Reading and analysis of texts relating to the specialty of project management.

- Written expression: Extraction of ideas from a technical document,

Evaluation methods

Nature of control	Weighting in %
Exam	100%
continuous	
Total	100%

References & Bibliography

1. *PT Danison, Practical guide to writing in English: uses and rules, practical advice, Editions d'Organization 2007*
2. *A. Chamberlain, R. Steele, Practical guide to communication: English, Didier 1992*
3. *R. Ernst, Dictionary of applied techniques and sciences: French-English, Dunod 2002.*
4. *J.Comfort, S. Hick, and A. Savage, Basic Technical English, Oxford University Press, 1980*
5. *EH Glendinning and N. Glendinning, Oxford English for Electrical and Mechanical Engineering, Oxford University Press 1995*
6. *TN Huckin, and AL Olsen, Technical writing and professional communication for nonnative speakers of English, McGraw-Hill 1991*
7. *J.Orasanu, Reading Comprehension from Research to Practice, Erlbaum Associates 1986*

EU wording: FUNDAMENTAL EDUCATIONAL UNIT 6

Sector :City professions

Speciality : Operational Project Management

Semester : 06

Identification of the teaching subject

TITLE: BUSINESS ECONOMY

Teaching Unit: FUNDAMENTAL 6 Number of

Credits: 5. Coefficient

:3.Total weekly hourly volume: 3h00

- Course (number of hours per week): 01h30
- Tutorials (number of hours per week): 1.5 hours
- Practical work (number of hours per week): 00:00

Description of the teaching subject

Prerequisites:

Prior knowledge of general economics, quantity surveying, construction site components, building construction phases, planning, scheduling, regulations and legislation,

General objective of the teaching subject:

Mastery of the economic aspect in the project process, mastery of the concepts: estimation, evaluation, forecasting, programming from a financial and economic point of view.

Learning Objectives:

Being able to quantify the completion of a project, a work or a work element and subsequently calculate the cost of the work unit (for example the cost of 1m² of the residential building) and the cost price of the elements produced. Mastery of methods for estimating and evaluating the costs of resources (humans, materials, transport, etc.) used to complete an entire project.

Content of the teaching subject

Chapter 1: Basic terminology

- Production work, project, work, elementary work;
- The estimate;
- Notions related to the term “price”;
- Cost price;
- Margins;
- Special terminology.

Chapter 2: Price sub-detail technique

- Definitions;
- Content study;
- General information on the price study;
- Exercises.

Chapter 3: Technique for sub-detailing the price of materials delivered to the site and stored

- Introduction and definitions;
- The materials ;
- Imported materials;
- Exercises.

Chapter 4: Sub-detail technique of material prices

- Cost of using equipment;
- Consumable materials;
- Major maintenance and repair;
- Calculation of usage costs;
- Exercises.

Evaluation methods

Nature of control	Weighting in %
Exam	50%
continuous	50%
Total	100%

References & Bibliography

- Yves WIDLOECHER and David CUSANT: Price study manual PRICE - Construction companies. 3rd edition - EYROLLES;
- Gérard CASANOVA - Denis ABECASSIS: Project management - cost calculations.<http://creativecommons.org/licenses/by-nc-nd/2.0/en/>;
- Bernard THION: Value, price and valuation methods in real estate. University Paris 9-Dauphine;

Identification of the teaching subject

TITLE: RISK MANAGEMENT

Teaching Unit: FUNDAMENTAL 6. Number of

Credits: 5. Coefficient

:3.Total weekly hourly volume: 3h00

- Course (number of hours per week): 1h30.
- Tutorials (number of hours per week): 1h30
- Practical work (number of hours per week): 0h00

Description of the teaching subject

Prerequisites: Tool of quality ; management ; management
construction site, methodological process.

General objective of the teaching subject:

- Improve the notion of project management by preparing action plans in the event of a risk occurring.
- Risk identification and analysis.
- Design extensive visibility, necessary for effective and appropriate decision-making.

Learning Objectives:

Set more precise, more realistic objectives and assign the project the right level of priority in terms of risk management and project management.

Content of the teaching subject

The risk management approach for an architectural and/or town planning project is generally based on a continuous and iterative process which aims successively to identify and analyze the risks incurred, to evaluate and prioritize them.

This management process is therefore broken down into four main

stages: Stage no. 1: Identification and characterization of risks.

Step #2: Risk assessment and prioritization. Step #3: Risk treatment.

Step #4: Risk monitoring and control.

Content of the

subject1- Risks

- Risk definitions
- Risk typology
- 2- Risk management**
 - The importance of the risk management function in the enterprise
 - Implementation of a risk management policy
 - The Cindynic
- 3- Risk analysis**
 - Segmentation of a business
 - Systematic approach
 - Risk analysis methods
 - Typology of risk analysis methods
 - Presentation of Inductive Methods
 - HAZOP (HAZard OPerability)
 - HACCP (Hazard Analysis Critical Control Points)
 - MOSAR (Systemic Organized Risk Analysis Method)
 - Presentation of Deductive Methods
 - Event tree
 - Fault trees (or cause trees or fault trees):
 - ISHIKAWA or INFLUENCE diagram (“6M” rule – Management, Workforce, Methods, Equipment, Material, Environment)
- 4- Risk Assessment :**
 - Hazard identification
 - Type of evaluation:
 - Qualitative methods:
 - Quantitative methods:
 - Method to assess criticality “likelihood-severity”
 - How to assess the probability of a risk occurring?
 - How to assess the seriousness of a risk?
 - Criticality
- 5- Developing the action program**
 - From diagnosis to action plan: the need for social construction

Evaluation methods

Nature of control	Weighting in %
Exam	50%
continuous	50%
Total	100%

References & Bibliography

- [1] “FD ISO GUIDE 73 Risk management - Vocabulary”. Afnor, December 2009.
- [2] “NF ISO 31000 Risk management – Principles and guidelines”. Edition Afnor, January 2010.

- [3] Curaba Sandra, Jarlaud Yannick, and Curaba Salvatore, risk assessment: how to develop your unique document?, Afnor. France, 2009.
- [4] K.JADID, Y. ELKHAYAT, and L. ZHAO, “Business risk management in relation to the ISO/DIS 9001:2015 standard”, University of Technology of Compiègne, Master in Quality AndPerformance In THE Organizations (QPO),
- [5] Trong Hung NGUYEN, contribution to project planning: proposal of a model for evaluating project risk scenarios doctoral thesis from the University of Toulouse September 2011.
- [6] Marques, G. Risk management to help manage cooperation within a supply chain: a simulation approach. Doctoral thesis, National Polytechnic Institute of Toulouse, December. 2010.
- [7] D.BREYSSE, H.NIANDOU, M. CHAPLAIN, F. JABBOUR P. Identification of risks for construction projects: review of international practices and proposals, 19th French Mechanical Congress, Marseille, August 24-28, 2009.
- [8] HENRI-PIERRE MADERS AND JEAN-LUC MASSELIN, Managing the risks of a project; Eyrolles Group, 2009.
- [9] DANIELLE MAISONNEUVE risk communication a new challenge; Presses de l’Université du Québec 2005.
- [10] JEAN LE RAY, From risk management to risk management AFNOR 2015 edition.
- [11] YVES METAYER. LAUREBCE HIRSCH; First steps in risk management. AFNOR edition, 2007.
- [12] BERNARD BARTHELEMY AND PHILIPPE COURREGES risk management global optimization method Éditions d'Organisation, 2000, 2004.
- [13] IFACI, PRICEWATERHOUSECOOPERS, LANDWELL, Enterprise risk management, Reference framework, application techniques, Éditions d'Organisation, 2005.
- [14] Pascal Kerebel Risk management Editions d'Organisation.

Identification of the teaching subject

TITLE: Dissertation AND END OF STUDY PROJECT 6

Teaching Unit: FUNDAMENTAL 6. Number of

Credits: 8. Coefficient :4.

Total weekly hourly volume: 6 hours

- Courses (number of hours per week): 00:00
- Tutorials (number of hours per week): 0h00
- Practical work (number of hours per week): 6 hours

Description of the teaching subject

Prerequisites:

- Quantity surveying techniques;
- CAD;
- Planning.

General objective of the teaching subject:

At the end of the year, the student will be able to master the entire process of a construction project and manage the knowledge relating to this process.

Learning Objectives:

At the end of the 2nd semester, the student will be able to:

- Establish a life cycle adopted for the project;
- Highlight the role of the different actors in the project and play their roles throughout the process;
- Simulate deadlines while trying to eliminate delays;
- Apply knowledge from other subjects;
- Summarize an approach to follow for the development of a construction project in the Algerian context.
- Develop a dissertation

Content of the teaching subject

To avoid the anomalies identified in the 1st semester, the 2nd is proposed as an ideal theoretical simulation of the same project. The student is called upon to retrace the process while ensuring compliance with standards in terms of deadlines and stakeholders. The student will play the role of the different stakeholders aiming at the objective of a “simulated” project which will be carried out as quickly as possible and with better quality.

Part of the work is reserved for calculating the measurement of part of the project and establishing a construction schedule.

Investigation tools:

To achieve the objectives of each semester, the student uses the following tools:

- Observation;

- Interviews with officials and staff of administrations, design offices and companies;
- Field trips;
- Taking photos;

Technical tools:

The student uses a series of IT tools to represent and make their project understood, including:

- A life cycle telling the story of the process;
- A dashboard grouping together events with their deadlines and actors;
- A time axis tracing the chronology;
- A schedule specifying the tasks, their resources and project deadlines;
- Mind mappings representing the approach and content of the work.

Preparation of the end-of-study dissertation

Evaluation methods

Nature of control	Weighting in %
Exam	
continuous	100%
Total	100%

At the end of the internship, the student will present an internship report, outlining the activity carried out by the intern.

Evaluation methods

Nature of control	Weighting in %
Exam	
Continuous	100%
Total	100%

Identification of the teaching subject

Title: PROJECT SIMULATION

Teaching Unit: METHODOLOGY 6. Number of

Credits: 3. Coefficient

:2.Total weekly hourly volume: 3 hours

- Course (number of hours per week): 0h00
- Tutorials (number of hours per week): 0h00
- Practical work (number of hours per week): 3 hours

Description of the teaching subject

Prerequisites:

- Mathematics ;
- Planning ;
- Handling office software.

General objective of the teaching subject:At the end of the semester, the student will be able to master the basic techniques and principles to effectively manage projects with MS Project.

Learning Objectives:

At the end of the semester, the student will be able to:

- Understand some principles of project management;
- Acquire the basics of planning in MS Project;
- Know how to calculate a schedule (know how to establish a progress point, prepare management decisions)
- Communicate effectively with different stakeholders;
- Anticipate project deviations in terms of costs/deadlines.

Content of the teaching subject

The program for this subject is structured around the following phases:

- Introduction to project management;
- Tasks, links and durations;
- Calendars;
- Resource and cost management;
- Project monitoring;
- Printing and communication in MS Project. Exercises

and applications must accompany this content.

Evaluation methods

Nature of control	Weighting in %
Exam	50%
Continuous	50%
Total	100%

References & Bibliography

AFITEP(2010), Dictionary of project management, ed. Afnor, Paris.

BELAID Mohand Cherif(2014), Project management: Implementation with MS Project, ed. International Blue Pages, Algiers.

BUTTRICK Robert (2006), Project management, ed. Global Village, PEARSON France.

COLLECTIF (2005), Combined standards glossary, ed. project management

Institute,

Pennsylvania, USA.

ENGLENDER O., FERNANDES S., Managing an IT project, ed. Eyrolles, Paris.

FAULX-BRIOLE A., Poject 2007: Study of a concrete case, ed. Eni.

MONK Jean-Yves(2010), Managing project portfolios, ed. Afnor, Paris.

Identification of the teaching subject

TITLE: MANAGEMENT 2

Teaching Unit: METHODOLOGY 6. Number of

Credits: 3. Coefficient

:1.Total weekly hourly volume: 3 hours

- Course (number of hours per week): 1.5 hours
- Tutorials (number of hours per week): 1 hour 30 minutes
- Practical work (number of hours per week): 0H00

Description of the teaching subject

Prerequisites:

Economy, French, management1

General objective of the teaching subject:

Define the contours of a project organization and its room for maneuver - Appreciate the role of the project manager, without formal authority - Develop the performance of your team throughout the project.

Learning Objectives:

Behave like managers and have a vision of action. Understand the issues of each situation through appropriate analyzes and summaries. Create the methodologies necessary for their action to move in any type of professional situation.

Content of the teaching subject

- **chapter 1** :Definition of a project (in test form)
- **Course 2**:Breaking down the project into phases; the life cycle of a project
- **Course 3**:Project manager: firstly a profession; the key functions of management
- **Course 4**:Project manager: firstly a profession; manager's methods and tools
- **Course 5**:The fundamentals of project management
- **Course 6**:The project management plan
- **Course 7**:Project management processes.
- **Course 8**:the process of evaluating ex-post projects.

Theoretical course completed.

- **Course 9**:Discovery of PMBOK 5 from PMI in the form of a presentation, there are two presentations left for the session on May 7.

Evaluation methods

Nature of control	Weighting in %
Exam	50%
Continuous	50%
Total	100%

References & Bibliography

ROBBINS S, JUDGE T, Organizational behavior, PEARSON, France, 2006. BUTTRICK Robert, PROJECT MANAGEMENT, Global Village, PEARSON France, 2006.

EU wording: DISCOVERY/TRANSVERSAL TEACHING UNIT 6
Sector :City professions
Speciality : Operational Project Management
Semester : 06

Identification of the teaching subject

TITLE: LEGISLATION

Teaching unit: METHODOLOGY 6.. Number of

Credits: 2. Coefficient

:2Total weekly hourly volume: 1.5 hours

- Course (number of hours per week): 1h30.
- Tutorials (number of hours per week): 0h00
- Practical work (number of hours per week): 0h00

Description of the teaching subject

Prerequisites:

Have knowledge relating to construction.

General objective of the teaching subject:

Mastery of legislative texts relating to construction.

Learning Objectives:

At the end of the semester, the student will be able to know:

- The legal aspects governing construction (civil code, construction laws and regulations, built property);
- The business contract, contractual links, building works contract;
- Roles and responsibilities of co-contracting partners;
- Relations with architects;
- Working conditions of construction workers;

- Social obligations of the employer;
- Urban planning easements.

Evaluation methods

Nature of control	Weighting in %
Exam	100%
Continuous	
Total	100%

References & Bibliography

COLLECTIVE, Legislation course (building). Ed. Practicom, Algiers 2001. Collection: Cahiers Algériens Pédagogiques. Series: Building and public works.

Identification of the teaching subject

Title: FOREIGN LANGUAGE 6

Teaching unit: TRANSVERSAL 6. Number of

Credits: 1. Coefficient

:1.Total weekly hourly volume: 1.5 hours

- Course (number of hours per week): 1h30
- Tutorials (number of hours per week): 0h00
- Practical work (number of hours per week): 0h00

Description of the teaching subject

Prerequisites:

Basic English vocabulary and grammar

General objective of the teaching subject: Introduce the student to technical vocabulary. Strengthen your knowledge of the language. Help him understand and synthesize a technical document. Allow him to understand a conversation in English held in a scientific framework.

Content of the teaching subject

- Written comprehension: Reading and analysis of texts relating to the specialty.
- Oral comprehension: From authentic popular science video documents, note taking, summary and presentation of the document.
- Oral expression: Presentation of a scientific or technical subject, development and exchange of oral messages (ideas and data), Telephone communication, Gestural expression.
- Written expression: Extraction of ideas from a scientific document, Writing a scientific message, Exchange of information in writing, writing CVs, application letters for internships or jobs.

Evaluation methods

Nature of control	Weighting in %
Exam	100%
Continuous	
Total	100%

References & Bibliography

8. *PT Danison, Practical guide to writing in English: uses and rules, practical advice, Editions d'Organization 2007*
9. *A. Chamberlain, R. Steele, Practical guide to communication: English, Didier 1992*
10. *R. Ernst, Dictionary of applied techniques and sciences: French-English, Dunod 2002.*
11. *J.Comfort, S. Hick, and A. Savage, Basic Technical English, Oxford University Press, 1980*
12. *EH Glendinning and N. Glendinning, Oxford English for Electrical and Mechanical Engineering, Oxford University Press 1995*
13. *TN Huckin, and AL Olsen, Technical writing and professional communication for nonnative speakers of English, McGraw-Hill 1991*
14. *J.Orasanu, Reading Comprehension from Research to Practice, Erlbaum Associates 1986*

IV- Agreements / Conventions

**REPUBLIQUE ALGERIENNE DEMOCRATIQUE ET POPULAIRE
MINISTERE DE L'HABITAT, DE L'URBANISME ET DE LA VILLE
WILAYA DE BISKRA**

A Mr le chef du département d'architecture de Biskra

OBJET : *Approbation du projet de lancement d'une formation de Licence Professionnelle intitulée « Conduite Opérationnelle de Projets de Construction »*

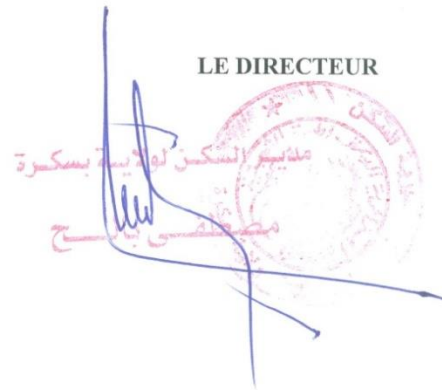
Dispensée à : Département d'architecture de Biskra

Par la présente, nous déclarons notre volonté de manifester notre accompagnement à cette formation en qualité d'utilisateur potentiel du produit.

A cet effet, nous confirmons notre adhésion à ce projet et notre rôle consistera à :

Donner notre point de vue dans l'élaboration et à la mise à jour des programmes d'enseignement,
Participer à des séminaires organisés à cet effet,
Participer aux jurys de soutenance,
Faciliter autant que possible l'accueil de stagiaires soit dans le cadre de mémoires de fin d'études, soit dans le cadre de projets tuteurés.

LE DIRECTEUR



REPUBLIQUE ALGERIENNE DEMOCRATIQUE ET POPULAIRE
MINISTERE DE L'HABITAT, DE L'URBANISME ET DE LA VILLE
WILAYA DE BISKRA

A Mr le chef du département d'architecture de Biskra

OBJET : *Approbation du projet de lancement d'une formation de Licence Professionnelle intitulée « Conduite Opérationnelle de Projets de Construction »*

Dispensée à : Département d'architecture de Biskra

Par la présente, nous déclarons notre volonté de manifester notre accompagnement à cette formation en qualité d'utilisateur potentiel du produit.

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Faciliter autant que possible l'accueil de stagiaires soit dans le cadre de mémoires de fin d'études, soit dans le cadre de projets tuteurés.

LE DIRECTEUR

هناك التوقيع والتوقيع من
مدير التجهيز والتجهيز لولاية بسكرة
عبدالمجيد المنصور
مدير التجهيز والتجهيز لولاية بسكرة



REPUBLIQUE ALGERIENNE DEMOCRATIQUE ET POPULAIRE
MINISTERE DE L'HABITAT, DE L'URBANISME ET DE LA VILLE
WILAYA DE BISKRA

A Mr le chef du département d'architecture de Biskra

OBJET : *Approbation du projet de lancement d'une formation de Licence Professionnelle intitulée « Conduite Opérationnelle de Projets de Construction »*

Dispensée à : Département d'architecture de Biskra

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Participer aux jurys de soutenance,

Faciliter autant que possible l'accueil de stagiaires soit dans le cadre de mémoires de fin d'études, soit dans le cadre de projets tuteurés.

LE DIRECTEUR



المدير العام
ميلودي بلبيك

**BUREAU D'ETUDE
E.T.B unité de BISKRA**

Siège sociale : *Quartier Beni-mosa Biskra*
R.C.N°: *071010222355199*
C.F.N°: *0980701001785*
C.B.N°:

OBJET : Approbation du projet de lancement d'une formation de Licence Professionnelle intitulée « Conduite Opérationnelle de Projets de Construction »

Dispensé à : Chef du département d'architecture de Biskra

Par la présente, **le directeur de BET E.T.B unité de BISKRA** déclare sa volonté de manifester son accompagnement à cette formation en qualité d'utilisateur potentiel du produit.

A cet effet, nous confirmons notre adhésion à ce projet et notre rôle consistera à :

Donner notre point de vue dans l'élaboration et à la mise à jour des programmes d'enseignement,
Participer à des séminaires organisés à cet effet,
Participer aux jurys de soutenance,
Faciliter autant que possible l'accueil de stagiaires soit dans le cadre de mémoires de fin d'études, soit dans le cadre de projets tuteurés.

Les moyens nécessaires à l'exécution des tâches qui nous incombent pour la réalisation de ces objectifs seront mis en œuvre sur le plan matériel et humain.

Monsieur **le directeur de BET E.T.B unité de BISKRA** est désigné(e) comme coordonnateur externe de ce projet.

SIGNATURE DE LA PERSONNE LEGALEMENT AUTORISEE :

FONCTION : Directeur du BET

DATE : 28/01/2019

CACHET OFFICIEL OU SCEAU DU BET



**Entreprise de Travaux de Bâtiment
ZAABOUB ELHADJ**

Siège sociale : ECRUE MOKHTARI A/B
R.C.N°: 98/A/1211432
C.F.N°: 15487110469137
C.B.N°:

OBJET : Approbation du projet de lancement d'une formation de Licence Professionnelle intitulée « Conduite Opérationnelle de Projets de Construction »

Dispensé à : Chef du département d'architecture de Biskra

Par la présente, l'entreprise **ZAABOUB ELHADJ** déclare sa volonté de manifester son accompagnement à cette formation en qualité d'utilisateur potentiel du produit.

A cet effet, nous confirmons notre adhésion à ce projet et notre rôle consistera à :

Donner notre point de vue dans l'élaboration et à la mise à jour des programmes d'enseignement,
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Les moyens nécessaires à l'exécution des tâches qui nous incombent pour la réalisation de ces objectifs seront mis en œuvre sur le plan matériel et humain.

Monsieur **ZAABOUB ELHADJ** est désigné(e) comme coordonnateur externe de ce projet.

SIGNATURE DE LA PERSONNE LEGALEMENT AUTORISEE :

FONCTION : Chef d'entreprise

DATE : 27/01/2019

CACHET OFFICIEL OU SCEAU DE L'ENTREPRISE



**Entreprise de Travaux de Bâtiment
CHIKH ALAOUA**

Siège sociale : 19 Rue MAN SOULI MED LA OARF Biskra
R.C.N°: 39.4.12.1.76.88. du 30.10.2013 (modifié)
C.F.N°: 1.722.8.11.00.38.11.86.....
C.B.N°:

OBJET : Approbation du projet de lancement d'une formation de Licence Professionnelle intitulée « Conduite Opérationnelle de Projets de Construction »

Dispensé à : Chef du département d'architecture de Biskra

Par la présente, l'entreprise **CHIKH ALAOUA** déclare sa volonté de manifester son accompagnement à cette formation en qualité d'utilisateur potentiel du produit.

A cet effet, nous confirmons notre adhésion à ce projet et notre rôle consistera à :

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Les moyens nécessaires à l'exécution des tâches qui nous incombent pour la réalisation de ces objectifs seront mis en œuvre sur le plan matériel et humain.

Monsieur **CHIKH ALAOUA** est désigné(e) comme coordonnateur externe de ce projet.

SIGNATURE DE LA PERSONNE LEGALEMENT AUTORISEE :

FONCTION : Chef d'entreprise

DATE : 27/01/2019

CACHET OFFICIEL OU SCEAU DE L'ENTREPRISE



**Entreprise de Travaux de Bâtiment
BERHAIL AMAR**

Siège sociale :
R.C.N°: 07/00-1115030/98
C.F.N°:
C.B.N°:

OBJET: Approbation du projet de lancement d'une formation de Licence Professionnelle intitulée « Conduite Opérationnelle de Projets de Construction »

Dispensé à : Chef du département d'architecture de Biskra

Par la présente, l'entreprise **BERHAIL AMAR** déclare sa volonté de manifester son accompagnement à cette formation en qualité d'utilisateur potentiel du produit.

A cet effet, nous confirmons notre adhésion à ce projet et notre rôle consistera à :

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Les moyens nécessaires à l'exécution des tâches qui nous incombent pour la réalisation de ces objectifs seront mis en œuvre sur le plan matériel et humain.

Monsieur **BERHAIL AMAR** est désigné(e) comme coordonnateur externe de ce projet.

SIGNATURE DE LA PERSONNE LEGALEMENT AUTORISEE :

FONCTION : Chef d'entreprise

DATE : 27/01/2019

CACHET OFFICIEL OU SCEAU DE L'ENTREPRISE



**Entreprise de Travaux de Bâtiment
CHIKH NOUARI**

Siège sociale : 05 Rne Akkad Salah Biskra
R.C.N° : 01.100.12.10406.97
C.F.N° :
C.B.N° :

OBJET : Approbation du projet de lancement d'une formation de Licence Professionnelle intitulée « Conduite Opérationnelle de Projets de Construction »

Dispensé à : Chef du département d'architecture de Biskra

Par la présente, l'entreprise **CHIKH NOUARI** déclare sa volonté de manifester son accompagnement à cette formation en qualité d'utilisateur potentiel du produit.

A cet effet, nous confirmons notre adhésion à ce projet et notre rôle consistera à :

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Les moyens nécessaires à l'exécution des tâches qui nous incombent pour la réalisation de ces objectifs seront mis en œuvre sur le plan matériel et humain.

Monsieur **CHIKH NOUARI** est désigné(e) comme coordonnateur externe de ce projet.

SIGNATURE DE LA PERSONNE LEGALEMENT AUTORISEE :

FONCTION : Chef d'entreprise

DATE : 27/01/2019

CACHET OFFICIEL OU SCEAU DE L'ENTREPRISE



**BUREAU D'ETUDE D'ARCHITECTURE
FELLAH YUCEF**

Siège sociale : Cite El Amei Bloc 84 N°524 BSKRA
R.C.N° : 03326/07/001
C.F.N° :
C.B.N° :

OBJET : Approbation du projet de lancement d'une formation de Licence Professionnelle intitulée « Conduite Opérationnelle de Projets de Construction »

Dispensé à : Chef du département d'architecture de Biskra

Par la présente, Le BET **FELLAH YUCEF** déclare sa volonté de manifester son accompagnement à cette formation en qualité d'utilisateur potentiel du produit.

A cet effet, nous confirmons notre adhésion à ce projet et notre rôle consistera à :

Donner notre point de vue dans l'élaboration et à la mise à jour des programmes d'enseignement,
Participer à des séminaires organisés à cet effet,
Participer aux jurys de soutenance,
Faciliter autant que possible l'accueil de stagiaires soit dans le cadre de mémoires de fin d'études, soit dans le cadre de projets tuteurés.

Les moyens nécessaires à l'exécution des tâches qui nous incombent pour la réalisation de ces objectifs seront mis en œuvre sur le plan matériel et humain.

Monsieur **FELLAH YUCEF** est désigné(e) comme coordonnateur externe de ce projet.

SIGNATURE DE LA PERSONNE LEGALEMENT AUTORISEE :

FONCTION : Directeur du BET

DATE : 27/01/2019

CACHET OFFICIEL OU SCAU DU BET



**BUREAU D'ETUDE D'ARCHITECTURE
BAHOK – BISKRA**

Siège sociale :
R.C.N°:
C.F.N°: 050.6070.1910.72.56.....
C.B.N°:

OBJET : Approbation du projet de lancement d'une formation de Licence Professionnelle intitulée « Conduite Opérationnelle de Projets de Construction »

Dispensé à : Chef du département d'architecture de Biskra

Par la présente, **le directeur du BAHOK – BISKRA** déclare sa volonté de manifester son accompagnement à cette formation en qualité d'utilisateur potentiel du produit.

A cet effet, nous confirmons notre adhésion à ce projet et notre rôle consistera à :

Donner notre point de vue dans l'élaboration et à la mise à jour des programmes d'enseignement,
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Participer aux jurys de soutenance,
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Les moyens nécessaires à l'exécution des tâches qui nous incombent pour la réalisation de ces objectifs seront mis en œuvre sur le plan matériel et humain.

Monsieur **le directeur du BAHOK – BISKRA** est désigné(e) comme coordonnateur externe de ce projet.

SIGNATURE DE LA PERSONNE LEGALEMENT AUTORISEE :

FONCTION : Directeur du BET

DATE : 27/01/2019

CACHET OFFICIEL OU SCEAU DU BET



**BUREAU D'ETUDE D'ARCHITECTURE
ET D'URBANISME -ACHOUR MOHAMED NADHIR-**

Siège sociale : Section 339 en face à la grande porte de l'université de Biskra
R.C.N°: 16913/07/14L
C.F.N°: 189070100907117

*OBJET : Approbation du projet de lancement d'une formation de Licence Professionnelle intitulée
« Conduite Opérationnelle de Projets de Construction »*

Dispensé à : Chef du département d'architecture de Biskra

Par la présente, Le BET **-ACHOUR MOHAMED NADHIR-** déclare sa volonté de manifester son accompagnement à cette formation en qualité d'utilisateur potentiel du produit.

A cet effet, nous confirmons notre adhésion à ce projet et notre rôle consistera à :

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Les moyens nécessaires à l'exécution des tâches qui nous incombent pour la réalisation de ces objectifs seront mis en œuvre sur le plan matériel et humain.

Monsieur **ACHOUR MOHAMED NADHIR** est désigné(e) comme coordonnateur externe de ce projet.

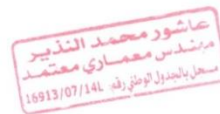
SIGNATURE DE LA PERSONNE LEGALEMENT AUTORISEE :



FONCTION : Directeur du BET

DATE : 27/01/2019

CACHET OFFICIEL OU SCEAU DU BET



**BUREAU D'ETUDE D'ARCHITECTURE
ARCHIIMPRIM
GUERFI MOHAMED MOSTEFA**

Siège sociale : ZONE EL ZIZA FELIACHE W.BISKRA
R.C.N°: 12313/07/12L
C.F.N°: 186070103901183

*OBJET : Approbation du projet de lancement d'une formation de Licence Professionnelle intitulée
« Conduite Opérationnelle de Projets de Construction »*

Dispensé à : Chef du département d'architecture de Biskra

Par la présente, Le BET **GUERFI MOHAMED MOSTEFA** déclare sa volonté de manifester son accompagnement à cette formation en qualité d'utilisateur potentiel du produit.

A cet effet, nous confirmons notre adhésion à ce projet et notre rôle consistera à :

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Les moyens nécessaires à l'exécution des tâches qui nous incombent pour la réalisation de ces objectifs seront mis en œuvre sur le plan matériel et humain.

Monsieur **GUERFI MOHAMED MOSTEFA** est désigné(e) comme coordonnateur externe de ce projet.

SIGNATURE DE LA PERSONNE LEGALEMENT AUTORISEE :



FONCTION : Directeur du BET

DATE : 27/01/2019

CACHET OFFICIEL OU SCEAU DU BET



D'ARCHITECTURE
BUREAU D'ETUDE D'ARCHITECTURE ET DE GENIE CIVIL
(INNOVATION)

Siège sociale : LOCAL N°= 09 CITE 24 LOGEMENTS AIN SAHARA NEZLA TOUGGOURT
R.C.N°: 16803/30/14L
C.F.N°: 198630080042630

OBJET : Approbation du projet de lancement d'une formation de Licence Professionnelle intitulée « Conduite Opérationnelle de Projets de Construction »

Dispensé à : Chef du département d'architecture de Biskra

Par la présente, Le BET D'ARCHITECTURE ET DE GENIE CIVIL (INNOVATION) déclare sa volonté de manifester son accompagnement à cette formation en qualité d'utilisateur potentiel du produit.

A cet effet, nous confirmons notre adhésion à ce projet et notre rôle consistera à :

Donner notre point de vue dans l'élaboration et à la mise à jour des programmes d'enseignement,
Participer à des séminaires organisés à cet effet,
Participer aux jurys de soutenance,
Faciliter autant que possible l'accueil de stagiaires soit dans le cadre de mémoires de fin d'études, soit dans le cadre de projets tuteurs.

Les moyens nécessaires à l'exécution des tâches qui nous incombent pour la réalisation de ces objectifs seront mis en œuvre sur le plan matériel et humain.

Monsieur **DEBBA KHALED** est désigné(e) comme coordonnateur externe de ce projet.

SIGNATURE DE LA PERSONNE LEGALEMENT AUTORISEE :

FONCTION : Directeur du BET

DATE : 27/01/2019

CACHET OFFICIEL OU SCEAU DU BET





مكتب الدراسات المتعدد الاختصاصات شبة الهندسة المعمارية
Bureau d'Etude Polyvalent Chia

Siege social: cité 184 Logs mekhadma Ouargla
N° Agrément : L06/07/05891
C.F.N°: 198107010101551

OBJET : Approbation du projet de lancement d'une formation de Licence Professionnelle intitulée « Conduite Opérationnelle de Projets de Construction »

Dispensé à : Chef du département d'architecture de Biskra

Par la présente, Le (**bepc.architecture**) **Bureau d'Etude Polyvalent Chia**
Déclare sa volonté de manifester son accompagnement à cette formation en qualité d'utilisateur potentiel du produit.

A cet effet, nous confirmons notre adhésion à ce projet et notre rôle consistera à :

Donner notre point de vue dans l'élaboration et à la mise à jour des programmes d'enseignement,
Participer à des séminaires organisés à cet effet,
Participer aux jurys de soutenance,
Faciliter autant que possible l'accueil de stagiaires soit dans le cadre de mémoires de fin d'études, soit dans le cadre de projets tuteurés.

Les moyens nécessaires à l'exécution des tâches qui nous incombent pour la réalisation de ces objectifs seront mis en œuvre sur le plan matériel et humain.

Monsieur **chia Abdallah** est désigné(e) comme coordonnateur externe de ce projet.

SIGNATURE DE LA PERSONNE LEGALEMENT AUTORISEE :

FONCTION : Directeur du BET

DATE : 27/01/2019

CACHET OFFICIEL OU SCEAU DU BET



**BUREAU D'ETUDE D'ARCHITECTURE
SELAOUI FAYÇAL**

Siège sociale :
R.C.N°:
C.F.N°:
C.B.N°:

OBJET : Approbation du projet de lancement d'une formation de Licence Professionnelle intitulée « Conduite Opérationnelle de Projets de Construction »

Dispensé à : Chef du département d'architecture de Biskra

Par la présente, Le BET SELAOUI FAYÇAL déclare sa volonté de manifester son accompagnement à cette formation en qualité d'utilisateur potentiel du produit.

A cet effet, nous confirmons notre adhésion à ce projet et notre rôle consistera à :

Donner notre point de vue dans l'élaboration et à la mise à jour des programmes d'enseignement,
Participer à des séminaires organisés à cet effet,
Participer aux jurys de soutenance,
Faciliter autant que possible l'accueil de stagiaires soit dans le cadre de mémoires de fin d'études, soit dans le cadre de projets tuteurés.

Les moyens nécessaires à l'exécution des tâches qui nous incombent pour la réalisation de ces objectifs seront mis en œuvre sur le plan matériel et humain.

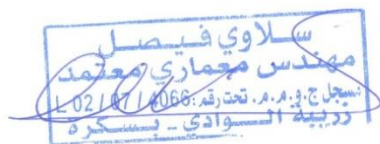
Monsieur SELAOUI FAYÇAL est désigné(e) comme coordonnateur externe de ce projet.

SIGNATURE DE LA PERSONNE LEGALEMENT AUTORISEE :

FONCTION : Directeur du BET

DATE : 27/01/2019

CACHET OFFICIEL OU SCEAU DU BET



V – Curriculum Vitae of Coordinators

Brief CV

Name and first name: SEKHRI Adel

Date and place of birth : 14 November 1979 in M'chedallah (Bouira)

Email and telephone: has.sekhri@univ-biskra.dz/ 0661147956

Grade : Lecturer class "B"

Establishment or institution of connection: Department of Architecture, Faculty of Science and Technology, Mohamed KHIDER University, Biskra, Algeria.

Diplomas obtained (graduation, post-graduation, etc.) with date and place of obtaining and specialty:

- **June 1997:** Baccalaureate: Natural Science Series, High School: Kérouani - SETIF.
- **December 2002:** Diploma of State Architect, Department of Architecture, Ferhat Abbas University, Sétif.
- **June 2005:** Magister Diploma in Architecture, Option: architecture, history and society, mention "GOOD", Department of Architecture, Ferhat Abbas University, Sétif.
- **June 2018:** Doctorate in Sciences - Architecture, Option: architecture, history and society, "Very honorable mention", Institute of Architecture and Earth Sciences – Ferhat Abbas University, Sétif 1.

Professional teaching skills (subjects taught, etc.)

- **Workshop**– 1st year architecture (Classical System).
- **Workshop**– 2nd year architecture (Classical System).
- **Workshop**– 3rd year architecture (Classical System).
- **Workshop**– 4th year architecture (Classical System).
- **Workshop**– 5th year architecture (Classical System).
- **Codified drawing of architecture 1& 2** (Semester 1 & 2) – 1st year Architecture license (LMD System).
- **Discovery of architectural tools**(Semester 1) / Introduction to the project (Semester 2) – 1st year Architecture license (LMD System).
- **Project 1& 2** (Semester 1 & 2) – 1st year Architecture license (LMD System).
- **Project 1 + Memory** (Semester 3) / Project 2 + Dissertation (Semester 4) – 2nd year Master, Specialty: Urban and Architectural Heritage in the Sahara (M2 PUAS).

Brief CV

Name and first name: BOUZAHER Soumia

Date and place of birth :23-10-1975 Biskra

Email and telephone: s.bouzaherlalouani@univ-biskra.dz / telephone: 0662177954

Grade :Lecturer “A”

Establishment or institution of connection:Department of Architecture, Faculty of Science and Technology, Mohamed KHIDER University, Biskra, Algeria.

Diplomas obtained (graduation, post-graduation, etc.) with date and place of obtaining and specialty:

- **July 1992**Bachelor of Natural Science.
- **September 1999.**Architect diploma.
- **December 2004**obtaining a Master's degree in architecture under the title "The elements of visual identification and spatial orientation in the street"
- **March 2015**Obtaining a “state doctor” diploma. under the title “Sustainable development through an ecotourism project; Case of the ksour of the Ziban micro region. The recovery of an ecotourism circuit. » at the Department of Architecture of Mohamed Khider Biskra University.
- **December 2016**Obtaining a diploma in “Accreditation to direct university research”. at the Department of Architecture of Mohamed Khider Biskra University.

Professional teaching skills (subjects taught, etc.)

- French terminology Directed Work (1st year classic).
- Workshop (introduction to drawing and architecture) (1st year classic).
- Workshop (analysis, integration and design of habitat) (classic 2nd year).
- Workshop (analysis, design of equipment) (3rd year classic).
- Urban Planning Course + tutorial (5th year classic).
- Workshop (analysis, integration and design of habitat) (2nd year license).
- Workshop (model and architectural survey) (2nd year license).
- Urban planning and spatial development (3rd year license).
- History of Cities Course + tutorial (1st year Master, urban project option).
- Urban ecology TD (1st year Master, urban project option).
- The seminar subject (2nd year Master, urban project option).

Brief CV

Name and first name: BELAKEHAL Azeddine

Date and place of birth :April 10, 1967 in Biskra

Email and telephone: a.belakehal@biskra-univ.dz/ 0772944222

Grade :Teacher

Establishment or institution of connection:Department of Architecture, Faculty of Science and Technology, Mohamed KHIDER University, Biskra, Algeria.

Diplomas obtained (graduation, post-graduation, etc.) with date and place of obtaining and specialty:

- Architect, Institute of Architecture of Biskra, June 1991
- Master's degree in Architecture with very honorable mention, Option Architecture of arid and semi-arid environments, Institute of Architecture of Biskra, June 1996.
- Doctorate in Sciences with very honorable mention, architecture sector, Department of Architecture, Mohamed KHIDER University, Biskra, January 2007.
- University accreditation, Department of Architecture, Mohamed KHIDER University, Biskra, October 2009.

Professional teaching skills (subjects taught in graduation)

- 'Project theory' (2nd Year License): since 2009-2010.
- 'Project' (2nd Year License): since 2009-2010.
- 'Ambiances' (2nd Year Master Urban and Architectural Heritage in the Sahara): since 2013-2014.
- Morphological analysis' (2nd Year Master Urban and Architectural Heritage in the Sahara): 2016-2017.

Brief CV

Name and first name: ZEMMOURI Nouredine

Date and place of birth :April 22, 1960 Oued Taga

Email and telephone: n.zemmouri@univ-biskra.dz Tel:0550856373

Grade :Teacher

Establishment or institution of connection:Department of Architecture, Faculty of Science and Technology, Mohamed KHIDER University, Biskra, Algeria.

Diplomas obtained (graduation, post-graduation, etc.) with date and place of obtaining and specialty:

- State Architect Diploma June 1984 University of Constantine.
- Mphil Architecture and Building Engineering November 1987 University of Bath England.
- State doctorate in Architecture October 2005 University of Sétif.

Professional teaching skills (subjects taught, etc.)

- Project theory 1 & 2.
- Architecture and Urban Planning Modeling 1 &2.
- CAD.
- Urban planning.
- 1st year Architecture Workshop.
- 3rd Year Architecture Workshop.

Brief CV

Name and first name: SELATNIA Khaled

Date and place of birth :08/19/1981 in Souk Ahras

Email and telephone: k.selatnia@univ-biskra.dz/ 0556 83 81 21

Grade :Lecturer “A”

Establishment or institution of connection:Department of Architecture, Faculty of Science and Technology, Mohamed KHIDER University, Biskra, Algeria.

Diplomas obtained (graduation, post-graduation, etc.) with date and place of obtaining and specialty:

- State engineering diploma in architecture (architect), from Mohamed Kheider University - Biskra, specialty: architecture, promotion: June 2005. Honors.
- Master's degree in Architecture. Option: human settlements in arid and semi-arid zones, faculty of science and technology, Mohamed Kheider Biskra University, year 2009/2011. Honors .
- Doctoral degree in Architecture, Option: human settlements in arid and semi-arid zones, faculty of science and technology, Mohamed Kheider University, Biskra.2015. Very honorable mention.
- Habilitation led research work, Mohamed Kheider University, Biskra. December 2016.

Professional teaching skills (subjects taught, etc.)

- Architectural project 1st year LMD
- Architectural project 2nd year LMD
- Models and 2nd year LMD report
- Urban planning and spatial planning 3rd year LMD
- Urban planning 4th year classic.
- Supervision of more than ten state architects.
- Supervision of fifteen Master theses, option: Urban project.

Brief CV

Name and first name: MEDOUKI Mostefa

Date and place of birth 02/28/1980 in Biskra

Email and telephone:m.medouki@univ-biskra.dz/ telephone: 06 71 52 21 33

Grade :Assistant Master “A”

Establishment or institution of connection:Department of Architecture, Faculty of Science and Technology, Mohamed KHIDER University, Biskra, Algeria.

Diplomas obtained (graduation, post-graduation, etc.) with date and place of obtaining and specialty:

- **July 2000:**Bachelor of Natural Science.
- **June 2005:**Architect diploma, Biskra architecture department.
- **July 2010:**obtaining a Master's degree in architecture, Option Architecture of arid and semi-arid environments, Biskra architecture department.

Professional teaching skills (subjects taught, etc.)

- Workshop (1st Year long cycle) / 2006-2007
- Workshop (3rd Year long cycle) / 2007-2009 / 2010-2011
- Workshop (2nd Year long cycle) / 2009-2010
- Workshop (4th Year long cycle) / 2011-2012
- Project (1st Year License) / 2010 - 2012
- Project' (2nd Year License)/ 2012-2013
- Subject Architectural and urban model (2nd Year License)/ 2012-2013
- Subject Survey Techniques (2nd Year License)/ 2012-2013
- Urban planning workshop, Spatial planning and development 1&2 (3rd Year License)/ 2013-2018
- Project 1 & 2 (1st Year Academic Master / Urban Project) / 2015-2018
- Construction workshop 1 & 2 (1st Year Academic Master / Urban Project) / 2016-2017
- Subject Internship (1st Year Academic Master / Urban Project) / 2015-2018
- Programming, Sketch and Preliminary Project (1st Year Academic Master / Architecture) / 2018-2019
- Execution File (DEX) (1st Year Academic Master / Architecture) / 2018-2019

VI - Opinions and Visas from Administrative and Consultative Bodies

Chef de département + Responsable de l'équipe de domaine

Date et visa 11 NOV. 2020
رئيس قسم الهندسة المعمارية
استشارية
د. سخري عادل



Date et visa 11 NOV 2020
Pr. Bada



Doyen de la faculté (ou Directeur d'institut)

Date et visa :

11 نوفمبر 2020
معيد الكلية بالنيابة
الكلية الهندسية والتكنولوجيا
جامعة محمد خير بكرة



Chef d'établissement universitaire

Date et visa

مدير الجامعة
أحمد بو طرفاية



VII - NOTICE AND ENDORSEMENT OF THE REGIONAL CONFERENCE

(Only in the final version sent to the MESRS)

VIII - OPINION AND ENDORSEMENT OF THE NATIONAL EDUCATIONAL COMMITTEE OF THE DOMAIN

(Only in the final version sent to the MESRS)