PEOPLE'S DEMOCRATIC REPUBLIC OF ALGERIA

MINISTRY OF HIGHER EDUCATION AND SCIENTIFIC RESEARCH

LMD training offer

PROFESSIONAL LICENSE

2020 - 2021

Establishment	Faculty / Institute	Department
Mohamed Seddik BENYAHIA University. JIJEL	Faculty of Science and Technology	Architecture

Domain	Sector	Speciality
(AUMV) ARCHITECTURE, URBAN PLANNING AND CITY TRADES	Urban Technology Management	City Management

SUMMARY

I – License Identity Card

1 - Location of the training:

- **Mohamed Seddik Benyahia University of Jijel**
- **Faculty of Science and Technology**
- **Department of Architecture**

- **Reference :**

REPUBLIQUE ALGERIENNE DEMOCRATIQUE ET POPULAIRE

MINISTERE DE L'ENSEIGNEMENT SUPERIEUR
ET DE LA RECHERCHE SCIENTIFIQUE

Arrêté n°143 du 28 JUIL. 2013

fixant le programme des enseignements du socle commun de licences du domaine « Sciences de la Terre et de l'Univers »
Filière « gestion des techniques urbaines »

Le Ministre de l'Enseignement Supérieur et de la Recherche Scientifique,

- Vu la loi n° 99 - 05 du 18 Dhou - El - Hidja 1419 correspondant au 04 avril 1999, modifiée et complétée, portant loi d'orientation sur l'enseignement supérieur,
- Vu le décret présidentiel n°12–326 du 17 Chaoual 1433 correspondant au 4 septembre 2012, portant nomination des membres du Gouvernement,
- Vu le décret exécutif n° 03 - 279 du 24 Joumada El Thania 1424 correspondant au 23 Août 2003, modifié et complété, fixant les missions et les règles particulières d'organisation et de fonctionnement de l'université,
- Vu le décret exécutif n° 05 - 299 du 11 Rajab 1426 correspondant au 16 Août 2005, fixant les missions et les règles particulières d'organisation et de fonctionnement du centre universitaire,
- Vu le décret exécutif n° 08 - 265 du 17 Châabane 1429 correspondant au 19 août 2008 portant régime des études en vue de l'obtention du diplôme de licence, du diplôme de master et du diplôme de doctorat,
- Vu le décret exécutif n°13–77 du 18 Rabie El Aouel 1434 correspondant au 30 janvier 2013, fixant les attributions du ministre de l'enseignement supérieur et de la recherche scientifique,
- Vu l'arrêté n°129 du 04 juin 2005 portant création, composition, attributions et fonctionnement de la Commission Nationale d'Habilitation.
- Vu l'arrêté n°75 du 26 mars 2012 portant création, missions, composition, organisation et fonctionnement du Comité Pédagogique National de Domaine,
- Vu l'arrêté n°129 du 06 mars 2013 portant création de la conférence des doyens par domaine,

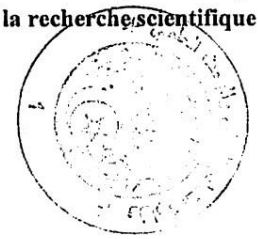
ARRETE

Article 1er : Le présent arrêté a pour objet de fixer le programme des enseignements du socle commun de licences du domaine « Sciences de la terre et de l'Univers » filière « gestion des techniques urbaines» conformément à l'annexe du présent arrêté.

Art. 2: Le Directeur Général des Enseignements et de la Formation Supérieurs et les Chefs d'établissement d'enseignement et de formation supérieurs, sont chargés, chacun en ce qui le concerne, de l'application du présent arrêté qui sera publié au bulletin officiel de l'Enseignement Supérieur et de la Recherche Scientifique.

Fait à Alger le : 28 JUIL. 2013

Le Ministre de l'enseignement supérieur et de la recherche scientifique



2-External partners

- Businesses and other socio-economic partners:

- Public Establishment of the Wilaya for the Management of Technical Landfill Centers - Jijel (EPWG CET)
- Constantine Urban Planning Study Center – URBACO – Jijel Agency
- Public Establishment of the Wilaya for the Management of Green Spaces, Recreation Areas and Public Lighting - Jijel (EPW GEVALEP-Jijel)
-National Sanitation Office-ONA-JIJEL
- Local Authorities,
- Port Company of DjenDjen.-JIJEL
-National Agency for Housing Improvement and Development –AADL- JIJEL Agency
-Architectural and urban studies design offices.

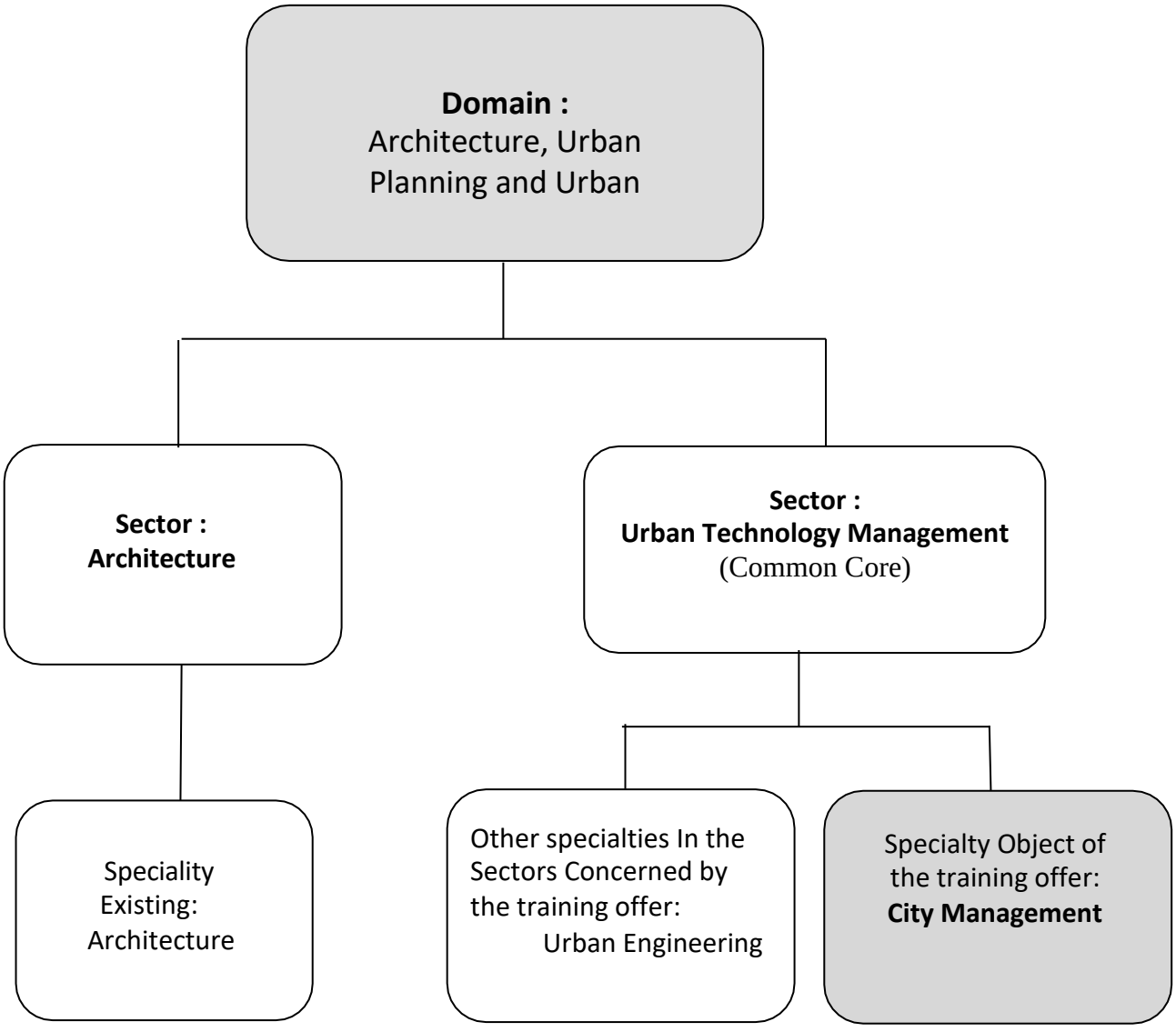
- International partners:

-National School of Architecture of Marseille-Luminy-ENSAM-France.

3 – Context and objectives of the training

A – General organization of the training: position of the project(Required field)

If several licenses are offered or already supported at the establishment level (same training team or other training teams), indicate in the following diagram the position of this project in relation to the other courses.



B -Training objectives

After completing the common core curriculum, which consists of two semesters corresponding to the first year of the L1 degree, it provides the opportunity to pursue courses in two professional degrees in the Urban Technology Management sector. This includes: City Management.

In Algeria, the mismatch between the different socio-economic functions has resulted in a lack of harmony and rationality in the use of urban space, the excessive density of which has disrupted social life and created practical management difficulties for the public authorities.

Furthermore, the construction of buildings outside the most basic rules of architecture and urban planning and the overall harmony of the different districts has created situations that are often irreversible in the perspective of a rational development of cities, which are characterized by the rapid transformations of urban society, the continuous proliferation of human settlements, the uncontrolled consumption of land, the speed of population growth, the proliferation of illegal housing, the degradation of the living environment, environmental problems, etc.

The general objective of this trainingprofessionalizing (Management **of theCities)**consists of:

- Better adaptation of training to the continual developments in urban techniques.
- Greater student accountability through personal research, prospecting, analysis, criticism and innovation, which cannot be the sole preserve of a workshop or lecture hall.
- A response to the evolving professional needs of the national and regional socio-economic context.
- Adequacy of teaching of urban technology management through two specialties, “Urban Engineering” and “city management”.

C – Targeted profiles and skills:

The city manager training aims at the following objectives:

- Train city professionals who must have a solid foundation in urban management.
- To provide the student with in-depth information on urban planning instruments.
- To train the student to better use these instruments to manage the city in a reliable and efficient manner.
- To provide the student with the knowledge necessary for adequate graphic and technical representation, in order to express these ideas and thoughts.

D – Regional and national employability potential:

The graduate in urban management must have general training combined with solid, versatile professional skills, both practical and theoretical, in order to be informed, choose, decide and finally coordinate between the different urban actors.

Therefore, the targeted opportunities are those of coordinator in a very broad range of the field of urban techniques, working in the direct production system (study and monitoring of urban projects), also at the interface of techniques and services (local authorities, organizations such as DUC and various design offices).

E – Gateways to other specialties:

The common core under AUMV domain/GTU sector, in two semesters, acquired: possible mobility between different universities which offer the same training.

F – Expected performance indicators of the training:
(Viability criteria, success rate, employability, monitoring of graduates, skills achieved, etc.)

Vocational training will be viable through the guarantee of employability linked to the evolution of city management processes and the general awareness of the need for such a sector in the practice of governance.

It will be supported with well-identified and committed professional partners (see chapter IV Agreements and conventions).

4-Human means available

A- Supervision capacity: 60 students / degree per year
B- Internal training management team

Nom Prénom	Diplôme de spécialité	Grade	Spécialité	Type/Matière à enseigner	Emargement
AIDAT ADILA	Magistère	MAA	Urbanisme	Cours / TD	
AMIRECHE HAMZA	Doctorat	Professeur	Aménagement	Cours / TD	
AOUICI AMINA	Magistère	MAA	Architecture	Cours / TD	
BABA RIMA	Magistère	MAA	Architecture	Cours / TD	
BENKECHKECHE GHOFRANE	Doctorat es-sciences	MCB	Génie Civil	Cours / TD	
BENZAID RIAD	Doctorat es-sciences	MCB	Génie Civil	Cours / TD	
BLIBLI MUSTAPHA	Magistère	MAA	Architecture	Cours / TD	
BOUCHAIR AMMAR	Doctorat	Professeur	Architecture	Cours / TD	
BOUCHEFRA HASSINA	Magistère	MCB	Aménagement	Cours / TD	
BOUHIDEL NOUR EL HOUDA	Magistère	MAA	Architecture	Cours / TD	
BOUKETTA SAMIRA	Magistère	MAA	Architecture	Cours / TD	
BOURAOUI RIAD	Magistère	MAA	Architecture	Cours / TD	
BOUTELLIS TOUFIK	Magistère	MAA	Architecture	Cours / TD	
BOUTAOUTAOU ELARABI	Magistère	MAA	Génie Civil	Cours / TD	
CHOUGUI MOHAMED LAMINE	Magistère	MAA	Génie climatique	Cours / TD	
DUHAIR AMIR	Doctorat es-sciences	MCB	GTU	Cours / TD	
GRIMES SAID	Doctorat es-sciences	MCB	Urbanisme	Cours / TD	
GHERZOULI SCHAHRAZED	Doctorat 3eme cycle	MCB	Aménagement	Cours / TD	
GUESSOUM WARDA	Magistère	MAA	GTU	Cours / TD	
HADEF HAYET	Doctorat es-sciences	MCB	Urbanisme	Cours / TD	
HALOUFI WAHID	Magistère	MAA	Génie climatique	Cours / TD	
HALLAL IBTISSEM	Magistère	MAA	Architecture	Cours / TD	
KHELFALLAH SCHAHRAZED	Magistère	MAA	Architecture	Cours / TD	

KIHAL HANANE	Magistère	MAA	Architecture	Cours / TD	
LAOUAR DJENETTE	Magistère	MAA	Architecture	Cours / TD	
LEHTIHET MOHAMED CHERIF	Doctorat es-sciences	MCB	Architecture	Cours / TD	
MEBROUK FATAH	Doctorat	Professeur	Géologie	Cours / TD	
OUARI MOUNIA	Magistère	MAA	Architecture	Cours / TD	
ROUIDI TARIK	Magistère	MAA	Architecture	Cours / TD	
SAFRI SAID	Magistère	MAA	Urbanisme	Cours / TD	
SMAKDJI NAFILA	Doctorat es-sciences	MCB	Génie climatique	Cours / TD	
SOUKEHAL BOUDJEMAA	Doctorat es-sciences	MCB	Aménagement	Cours / TD	
TEBBOUCHE HOCINE	Magistère	MAA	Architecture	Cours / TD	

Nom Prénom	Diplôme de spécialité	Grade	Spécialité	Type/Matière à enseigner	Emargement
MOHDEB Rachid	Doctorat 3eme cycle	MCA	Aménagement	Cours /TD	
LATLI AZZEDDINE	Magistère	/	Aménagement	Cours et TD	
KEDJA Fateh	Architecte	/	Architecture	TD	
WITES Rachid	Géomètre Expert	/	Topographie/ Géodesie	TD	

Department **Faculty**

Date and visa

Date et visa

رئيس قسم الهندسة المعمارية

رويني طارق

23 MARS 2020

2020 مارس 24

عميد كلية العلوم والتكنولوجيا

الأستاذ : سعيدي محمد رشيد

C- External training supervision team

D- Overall summary of human resources:

Grade	Internal Staff	External Staff	Total
Teachers	03	--	03
Lecturers (A)	01	01	02
Masters of Conferences (B)	09	--	09
Assistant Professor (A)	20	--	20
Assistant Professor (B)	00	00	00
Other (specify)	00	03	03
Total	33	04	37

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)

Lab title:	**Concrete and materials**		
No.	**Equipment title**	**Number**	**Observations**
01	Concrete aerometer	0l	
02	Shock device	0l	
03	Vicat apparatus	05	Tiller
04	Ultrasound device	01	broken-down
05	Surfacing device	01	
06	250 mL glass beaker	06	
07	50 mL glass beaker	06	
08	51Kg capacity scale	01	
09	Core drill	01	
10	Abrams Cone	05	
11	Bitumen ductometer	01	
12	Drying oven	01	
13	250 mL bottle	04	
14	500 mL bottle	08	
15	1000 mL bottle	08	
16	2000 mL bottle	03	
17	Concrete mixer	01	

18	Mortar mixer	01	
19	DEVAL machine	01	
20	Machine LOS ANGLES	01	Broken-down
21	Compression machine	02	
22	Bending machine	01	
23	Machine for determining the modulus of elasticity	01	
24	Linear variation measuring device	01	
25	Concrete workability meter	01	
26	Concrete test tube mold 16X32	23	
27	Prismatic concrete mold 07x07x28	02	
28	Bitumen penetrometer	02	
29	Concrete Saw Machine	01	
30	Classic sclerometer	03	
31	Slotted Grid Series	13	
32	Vibrating table	01	
33	Concrete vibrator and stabilizer electric	01	Broken-down
34	Bitumen viscometer	02	
35	Device for measuring the bending of mortar prisms	01	
36	Electric sieve	01	
37	Electric distiller	01	
38	Micro DEVAL	01	
39	Prismatic mold 04x04x16	02	
40	Conditioning device	01	
41	Cubic mold	04	
42	Microcomputer	01	

Lab title:	**Topography**

No.	Equipment title	Number	Observations
01	RTA 4 device with tripods	05	
02	KOS device with tripods	06	
03	KR 1 camera with tripods	04	
04	RDS device	03	
05	Compass	04	
06	Chain of 20	02	
07	20m chain with ribbon	05	
08	Plane wire	19	
09	1 m milestone	26	
10	2 m milestone	38	
11	Plan drawing machine	01	Broken-down
12	Sliding foot sight	04	
13	04 m folding sights	17	
14	Slom level with tripods	01	
15	Level NI 10	01	
16	Level 050	01	
17	Level 025	01	
18	GKO level with tripods	11	
19	Level NK 01	05	

20	High precision level with staff	01	
21	Planimeter	01	
22	Complete odometer cell	05	
23	Stereoscope	01	
24	Pantograph	02	
25	Wooden T for drawing	15	
26	GM 27 28 29 sight	05	
27	PM sight	02	
28	Tripods	04	

Title of the laboratory:	**Soil mechanics**		
No.	**Equipment title**	**Number**	**Observations**
01	Electric stirrer for sedimentometer	06	
02	Mechanical agitator for equivalent of sand	04	
03	Odometer device	06	03Not installed
04	Circular charge for CBR	10	
05	Circular load for CBR of 8Kg	68	
06	Spacer disc	09	
07	Sedimentometry densimeter	06	
08	Funnel for sand equivalent	02	
09	300g scale	01	
10	Lab stopwatch	01	
11	Normal Proctor mold	10	
12	Dame Proctor Normal	10	
13	Dame Proctor small model	10	
14	Proctor test plane	02	
15	Type 41 scale of 15 kg	01	
16	311g precision scale	01	
17	Membrane densimeter	02	
18	Modified Proctor mold	10	
19	Piston for sand equivalent	02	
20	Bottle for equivalent sand	02	
21	Sampler	02	
22	Complete odometer cells	05	
23	Plateau	04	
24	Small porcelain plate	I0	
25	Large porcelain plate	02	
26	Dynamic penetrometer	01	
27	Tare small model	43	
28	Tripod for CBR mold	07	
29	Roberval 1kg scale weight	09	
30	Mercury thermometer	15	
31	Casagrande box	10	
32	Smooth cup	10	
33	Plastic wash bottle	07	
34	Liquidity limit box (T40)	08	
35	Box for withdrawal limit (T35)	10	

36	Oedometric reading comparator	I4	
37	Graduated glass cylinder (2L)	11	
38	Spatula	12	
39	20 kg range scale	01	
40	10 kg electric scale	01	
41	Hydrostatic weighing device	01	
42	Graduated glass cylinder (100mL)	07	
43	Ungraduated glass test tube	12	
44	Graduated glass cylinder (1L)	01	
45	Precision balance2.4lkg 0.1 /g	01	
46	Shearing machine	02	
47	Proctor's machine		
48	Automatic compaction machine for CBR and proctor	01	
49	Triaxial machine	01	
50	Precision balance 200 g / 0.001 g	01	
51	Wide neck pycnometer 500m1	02	
52	Bitumen Pycnometer 01L with wide neck	02	
53	Wide-necked pycnometer 02 L	02	
54	500 ml glass pycnometer	02	
55	200 ml glass pycnometer with narrow neck	02	
56	100ml glass pycnometer with narrow neck	02	
57	Humidity indicator	01	
58	Magnetic stirrer	01	
59	Pocket vane meter	01	
60	Caliper	01	
61	Circular charge for CBR of 4Kg	14	
62	Circular load for CBR of 2Kg	32	
63	Circular charge for CBR of 1Kg	13	
64	Circular charge for CBR of 0.5 Kg	04	
65	Circular charge for CBR of 0.25 Kg	04	
66	Manual core drill	01	
67	Roberval 2Kg scale weight	04	
68	Roberval 5Kg scale weight	02	
69	Sieve	163	
70	complete set of weights from 1g-500g	05	
71	Stainless steel hand shovel	04	
72	Water content cup	33	
73	5 kg door scale	02	
74	Test tube for sand equivalent	17	

Lab title:	Environmental simulation		
Ref	**Quantity designation**	**quantity**	**observe**
ES1335	**DIGITAL LUXMETER** 2000 counts LCD, For all types of lighting, Measures 40a 400000 lux in 5 calibers, Accuracy ±3% of reading, Hold&pick max and min function, Lux or footcandle display, Digital barograph, Automatic shutdown, Resolution 0.01lux, Supplied with hard case	01	
ES1357	**DIGITAL SOUND LEVEL METER** 2000-count LCD display + circular bargraph, Measuring range 30 to 130 Db, Penetration curve A or C, Slow or fast mode Max function, Max value storage, RS232 link Analog output for recorder, Supplied with case	01	
TOD3	**LEICA RANGEFINDER** Range from 0.05 to 100m, Power range Tm technology, Precision ±1.00m, Integrated tilt sensor, Multifunction folding part, Addition subtraction surface volume function min max, Indirect measurement solid angle calculation, Automatic illumination of the keyboard and 4-line display, IP54 housing	01	
ES1367	**DIGITAL POCKET HYGROMETER**	01	
M07	**ANEMOMETER WITH RS232** With propeller sensor, Measuring range from 0.3 to 45m/s - from 0 to 60°, 2000 value memory, RS232 connection, Max temperature function, HOLD function, Supplied with software under Windows	01	
ES39	**1000° INFRARED PYROMETER** With laser sight, Temperature range -50 / 1000° C, Target/distance ratio 50/1, Automatic hold function, Min/max/difmoy function, High and low alarm, Adjustable emissivity, Delivered in a hard case	01	
RA12	**RING PYRANOMETER** 10µV(W/M²), ISO9060 Class1, Response time: <28ms Ring diameter: 570 mm, Ring height: 54mm, Base diameter: 300mm, Weight: 0.90 kg + ring 5.90 kg • Typical sensitivity • Impedance • Measuring range • Field of view • Spectral range • Operating temperature • Replaceable cartridge for silica gel crystalsReducing the formation of condensation inside the sensor (autonomy: 2 to 6 months) • Compliance: ISO9060/WMO recommendation	01	

B- Internship and in-company training sites:

Internship location	Number of students	Duration of the internship (days)
Experimental site “Port of DjenDjen »	10	10
“Rough terrain” experimental site	10	10
Experimental site "penetrating highway"	10	10
The APC of the Wilaya of Jijel	6	10
DEP of the Wilaya of Jijel	6	10
DL of the Wilaya of Jijel	6	10
DUAC of Jijel	6	10
Jijel Public Works	6	10
Various network management services	6	10

*internship site and host establishment

C- Documentation available at the establishment level specific to the training offered(Required field):

Bibliographic documentation related to architecture and civil engineering:

Number of titles in architecture, urban planning and regional planning	**413**
Number of titles in technical drawing and general works	**108**
Number of titles in buildings and construction materials	**283**
Number of titles in secondary trades	**96**
Number of titles in public buildings and housing	**91**
Number of titles in history and geography	**27**
Number of titles in arts and decoration	**67**
Number of roof titles	**19**
Number of atlases and dictionaries	**50**
Number of titles in RDM, concrete, MDS, Hydraulics.	**500**
Number of titles in Technology	**247**

TOTAL	**1901**

In addition, the Library of the Faculty of Science and Technology:

- Consultation and study area for LMD equipped with PC (Intranet) with access to the Engineering Techniques database.
- 1 complete collection of works “Engineering Techniques”.
- 1 complete collection of the Works “Treatise on Materials”.
- 1 complete collection of the works “Treatise on Civil Engineering” from the Swiss Federal Institute of Technology in Lausanne.
- University subscriptions on (science direct, springer and SNDL)
- Algerian and French Civil Engineering Standards.

D-Personal work spaces and ICT DATA

SHOW PROJECTORS: 4 Units

The department has three (3) teaching rooms and production of work by students equipped with the following equipment:

3M VIDEO PROJECTOR: 3Units

- Interactive video projector with stylus and remote control
- Arm with 2x20 watt folding speakers
- Projector control box and connection of other peripheralsmore wiring
- Workspace tablet and software.

SMARTCLASS+ Multimedia Equipment Teacher Smart Class + LAD: 3 U n i t s

Multimedia room control station with KVM boxes. Software control solution,which allows functions such as Master-Students to all, tutoring, handling, file transfer and more.

Exercise management module for multimedia room (Media Library) Live and self-access media activities. Access by teachers from any network-connected workstation.

Teachers can import documents, convert them into exercises, launch them in class or in open access, evaluate and monitor student progress.

Unlimited access and license for teachers.00KVM Hardware: Video transmission network Hardware with USBSC2500 CR handling
SC2500 H-KVM (Hub for up to eight interfaces)
SC2500 1x2 (VGA-USB interface for two stations)
SC2500 RAL - 6Pi (teacher station cabling)
SC2500 CAT5- Network cable between Hub and NAS Server interface with 4TB HDD
Dimensions (WxDxH):9.4cm x 20.3 cm x 14.1 cm
Processor: Marvell 1 GHz
Hard Drive: 2 x 2TB removable Serial ATA-300
HP Pro 3500 Professor's PC
Intel J7-3470 Processor(3.20Ghz, 6Mb)

HDD: 1TB
4GB DDR3 RAM
Burn DVD RW
21.5" LCD screen, USB optical mouse, USB bilingual AR/FR azerty keyboardsWindows 8, 64 Bitprofessional

Student Multimedia EquipmentSmart Class* MAD-T: 72 Units

Exercise management module for multimedia library
Media library module allowing the completion of numerous exercises, made available by the teacher(s) in classroom situations and for self-learning.
KVM Hardware: Hardware video transmission network with USB support SC2500 1x4 (VGA-USB interface for four stations)
SC2500 RAL - 6Pi (teacher station cabling) SC2500
CAT5- Network cable between Hub and Pc elves
HP pro 3500 interface
Intel i5-3470 Processor (3.20 GHz, 6
MB)HDD: 1TB
4GB DDR3 RAM
RW burnerDVD
20" LCD screen, USB optical mouse, USB AR/FR bilingual
azerty keyboards, Windows 8, 64 Bit professional

II – Half-yearly teaching organization sheet

[Sector] Urban Technology Management[

] Amen and Al-Hajj ,معمارية [south] ميدان]Al-Qaeda Al-Qaeda -Al-Qadr Al-Qaeda Al-Qaeda تسيير[Al-Qaeda Al-Qaeda

1st year Bachelor's degree: Urban Technology Management - Common core Semester

Semester 1: **]السداسيالأول[01**

Teaching unit	Materials	Credits	Coefficient	Weekly hourly volume				Half-yearly Hourly Volume (15 weeks)	Additional Workin Consultation (15 weeks)	Assessment method	
	Titled			**Course**	**TD**	**TP**	**Worksh op**			**Control Continuo us**	**Exam**
EU FundamentalCredits: 18 Coefficients: 9	Introduction to urban planning 1	4	2	1h30	1h30			45 hours	55h	40%	60%
	Workshop 1: Initiation in technical drawing	8	4				6:00 a.m.	90 hours	200h	100%	
	Development of space	4	2	1h30	1h30			45 hours	55h	40%	60%
	Seminars 1	2	1	1h30				10:30 p.m.	27:30	100%	
EU MethodologicalCredits: 9 Coefficients: 5	Mathematics and statistics	4	2	1h30	1h30			45 hours	55h	40%	60%
	Computer science	4	2			3 hours		45 hours	100h	100%	
	Techniques of communication	1	1	1h30				10:30 p.m.	2h30		100%
EU Discovery Credits: 2 Coefficients: 2	Urban legislation 1	2	2	1h30	1h30			45 hours	27:30	40%	60%
Transversal EU Credits: 1 Coefficients: 1	Language English 1	1	1	1h30				10:30 p.m.	2h30		100%
Total semester 1		**30**	**17**	**10:30 a.m.**	**6:00 a.m.**	**3:00 a.m.**	**6:00 a.m.**	**382h30**	**525h**		

Semester 2:

	Materials	Credits	Coefficient	Hourly volume weekly				Half-yearly Hourly Volume (15 weeks)	Additional Workin consultation (15 weeks)	Assessment method	
	Titled			**Course**	**TD**	**TP**	**Workshop**			**Continuous Assessment**	**Exam**
EU FundamentalCredits: 18 Coefficients: 9	Introduction to urban planning2	4	2	1h30	1h30			45 hours	55h	40%	60%
	Workshop 2: Habitat and construction files	8	4				6 a.m.	90 hours	200h	100%	
	Urban planning	4	2	1h30	1h30			45 hours	55h	40%	60%
	Seminar 2	2	1	1h30				10:30 p.m.	27:30	100%	
EU MethodologicalCredits: 9 Coefficients: 5	Computer-aided design (CAD)	4	2			3 hours		45 hours	100h	100%	
	Technology and materials construction	4	2	1h30		1h30		45 hours	77h30	40%	60%
	introduction to documents cartographic	1	1			1h30		10:30 p.m.	25h	100%	
EU Discovery Credits: 2 Coefficients: 2	Urban legislation 2	1	1	1h30				10:30 p.m.	2h30		100%
	Practical training	1	1			1h30		10:30 p.m.	25h	100%	
Transversal EU Credits: 1 Coefficients: 1	Language 2 - English 2	1	1	1h30				10:30 p.m.	2h30		100%
Total semester 2		**30**	**17**	**9:00 a.m.**	**3:00 a.m.**	**7:30 a.m.**	**6:00 a.m.**	**382h30**	**570h**		

Semester 03:

	Materials	Credits	Coefficient	Hourly volume weekly				Half-yearly Hourly Volume (15 weeks)	Additional Workin consultation (15 weeks)	Assessment method	
	Titled			**Course**	**TD**	**TP**	**Workshop**			**Continuous Assessment**	**Exam**
EU Fundamental Credits: 18 Coefficients: 9	Workshop 03: Project Urban Diagnosis	8	4				6 a.m.	90 hours	200h	100%	
	Urban project: concepts and foundations	6	3	1h30		3 hours		67h30	127h30	40%	60%
	Geography of Cities	4	2	1h30	1h30			45 hours	55h	40%	60%
EU MethodologicalCredits: 9 Coefficients: 5	Remote sensing	1	1	1h30				10:30 p.m.	2h30		100%
	Roads and networks various.VRD	4	2	1h30	1h30			45 hours	55h	40%	60%
	Topography	4	2	1h30		1h30		45 hours	77h30	40%	60%
EU Discovery Credits: 1 Coefficients: 1	Internship and outings	1	1			1h30		10:30 p.m.	25h	100%	
Transversal EU Credits: 2 Coefficients: 2	Climate Change	1	1	1h30				10:30 p.m.	2h30		100%
	City and sustainable development	1	1	1h30				10:30 p.m.	2h30		100%

Total semester 3		**30**	**17**	**10:30 a.m.**	**3**	**6 a.m.**	**6 a.m.**	**382h30**	**547h30**		

Semester 04:

	Materials	Credits	Coefficient	Hourly volume weekly				Half-yearly Hourly Volume (15 weeks)	Additional Workin Consultation (15 weeks)	Assessment method	
	Titled			**Course**	**TD**	**TP**	**Workshop**			**Continuous Assessment**	**Exam**
EU Fundamental Credits: 18 Coefficients: 9	Workshop 04: Urban Project: Urban Interventions	8	4				6 a.m.	90 hours	200h	100%	
	Operational Urban Planning	6	3	1h30		3 hours		67h30	127h30	40%	60%
	Urban Hydraulics	4	2	1h30	1h30			45 hours	55h	40%	60%
EU MethodologicalCredits: 9 Coefficients: 5	Urban management and marketing	5	3	1h30	1h30			45 hours	80 hours	40%	60%
	Information systemgeographic (GIS 1)	4	2			3 hours		45 hours	100h	100%	
EU Discovery Credits: 1 Coefficients: 1	Foreign Language - English 3	1	1	1h30				10:30 p.m.	2h30		100%
Transversal EU Credits: 2 Coefficients: 2	Waste management	2	2	1h30	1h30			45 hours	5h	40%	60%
Total semester 4		**30**	**17**	**7:30 a.m.**	**4:30 a.m.**	**6 a.m.**	**6 a.m.**	**360h**	**570h**		

Semester 05:

	Materials	Credits	Coefficient	Hourly volume weekly				Half-yearly Hourly Volume (15 weeks)	Additional Workin consultation (15 weeks)	Assessment method	
	Titled			**Course**	**TD**	**TP**	**Workshop**			**Continuous Assessment**	**Exam**
EU FundamentalCredits: 18 Coefficients: 9	Workshop 05: Urban planning instruments in Algeria	10	5				6 a.m.	90 hours	250h	100%	
	City management	4	2	1h30	1h30			45 hours	55h	40%	60%
	Transport and urban mobility	4	2	1h30		1h30		45 hours	77h30	40%	60%
EU MethodologicalCredits: 9 Coefficients: 5	city and renewable energies	4	2	1h30	1h30			45 hours	55h	40%	60%
	Information systemgeographic (GIS 2)	4	2			3 hours		45 hours	100h	100%	
	Public Markets	1	1	1h30				10:30 p.m.	2h30		100%
EU Discovery Credits: 1 Coefficients: 1	Ethics and Professional Conduct	1	1	1h30				10:30 p.m.	2h30		100%
Transversal EU Credits: 2 Coefficients: 2	Green space management	2	2	1h30	1h30			45 hours	5h	40%	60%
Total semester 5		**30**	**17**	**9 a.m.**	**4:30 a.m.**	**4:30 a.m.**	**6 a.m.**	**360**	**547h30**		

Semester 06:

	Materials	Credits	Coefficient	Hourly volume weekly				Half-yearly Hourly Volume (15 weeks)	Additional Workin consultation (15 weeks)	Assessment method	
	Titled			**Course**	**TD**	**TP**	**Workshop**			**Continuous Assessment**	**Exam**
EU FundamentalCredits: 18 Coefficients: 9	Subject 1: Professional project workshop	14	7				6 a.m.	90 hours	350h	100%	
	Major risks in urban environments	4	2	1h30	1h30			45 hours	55h	40%	60%
EU MethodologicalCredits: 9 Coefficients: 5	Internship in a professional environment	9	5	4 weeks					225h	100%	
EU Discovery Credits: 2 Coefficients: 2	Professional project and business management: PPGE	2	2	1h30	1h30			45 hours	5h	40%	60%
Transversal EU Credits: 1 Coefficients: 1	Writing an internship report	1	1	1h30				10:30 p.m.	2h30		100%
Total semester 6		**30**	**17**	**4:30 a.m.**	**3 hours**		**6 a.m.**	**8:30 p.m.**	**637h30**		

Overall training summary:

1st Year: COMMON CORE:
(Indicate the separate global VH in progress, TD, TP… for the teaching semesters, for the different types of UE)

EU / VH	UEF	EMU	UED	UET	Total
Course	135h	67h30	45 hours	45 hours	292h30
TD	90 hours	10:30 p.m.	10:30 p.m.	-	135h
TP	-	135h	10:30 p.m.	-	3:30 p.m.
Workshop	180h	-	-	-	180h
Personal Work	675h	360h	55h	5h	1095h
Other (specify)	-	-	-	-	-
Total	1080h	585h	2:30 p.m.	50 hours	**1860h**
Credits	36	18	4	2	**60**
% in credits for each EU	**60%**	**30%**	**6.66%**	**3.33%**	**100%**
			10%		

2nd and 3rd Year:(indicate the separate global VH in progress, TD, TP… for the 04 semesters of teaching, for the different types of UE)
(Calculations are carried out for 4 semesters – from S3 to S6 -)

EU / VH	UEF	EMU	UED	UET	Total
Course	3:30 p.m.	135h	67h30	112:30 p.m.	472h30
TD	112:30 p.m.	67h30	10:30 p.m.	45 hours	247h30
TP	135h	112:30 p.m.	10:30 p.m.	-	270 hours
Workshop	360h	-	-	-	360h
Personal Work	1552h30	697h30	35 hours	5:30 p.m.	2302h30
Other (specify)	-	-	-	-	-
Total	11:17 p.m.	10:12:30	147h30	175h	3652h30
Credits	**72**	**36**	**5**	**7**	**120**
% in credits for each EU	**60%**	**30%**	**4.16%**	**5.83%**	**100%**
			10%		

III. Program detailed by semester subject

(1 detailed sheet per subject / all fields must be completed)

Semester 1	
Teaching unit	EU. Fundamental
Subject 1	Introduction to urban planning1
Coefficient	2
Credit	4

Teaching objectives

Concepts and definitions. Birth and evolution of cities. Urban planning as a practice and discipline.

Cities throughout history. Neolithic. Ancient. Medieval. Modern. Urban theories and doctrines. Great ideas, utopias.

Recommended prior knowledge Subject

content:

1- Urban planning: a global approach
- The major problems that urban planning deals with or must deal with
- Urban planning as a virtual mode of development of inhabited space
- Urban planning as a place of conflict and power

2- History of cities

3 - Schools of thought and doctrines of Urban Planning

Assessment method: Continuous assessment 40%

Examination 60% Bibliographic references:

- CHOAY. F. and Merlin. P. Dictionary of urban planning and development. Paris.QUADRIGE/PUF, 3rd edition. 2010. 963 p.
- CHOAY (Françoise), Urban planning, utopias and realities, an anthology, Paris, Seuil, 1965
- AUZELLE (Robert), Keys to urban planning, Paris, Seghers, 1971
- AUZELLE (Robert), Urban Planning Techniques, What do I know? collection, Paris, PUF, 1961 (2nd edition)
- JOLY (Robert), The City and Urban Civilization, Paris, Ed. Sociales, 1985
- CHALINE (Claude), New Cities in the World, Coll. Que sais-je? n° 2231, Paris, PUF, 1985
- MUMFORD (Lewis), The Decline of Cities or the Search for a New Urbanism, Paris, Ed.
- STÜBBEN (Joseph), Der Städtebau, Darmstadt, A. Bergsträßer, 1890
- SORIA Y MATA (Arturo), Linear City: New Concept for Urban Planning, Paris, CERA, 1979 (trans.)
- SITTE (Camillo), cities, urban planning according to its artistic foundations, Paris, Ed. de l'Equerre, 1980
- BENEVOLENT Leonardo, History of the city,Paris, Éd. Parenthèses, 1995, 512 p.
.

Semester 1	
Teaching unit	EU. Fundamental
Subject 2	Introduction to technical drawing
Coefficient	4
Credit	8

Teaching objectives

The main objective of this workshop is to enable students to become familiar with the concepts of building design and graphic representations in urban planning and architecture...

Content of the subject:

1- The design of the building

1.1 Project development process

1.2 Document to provide

2- General concepts of building drawing

2.1 The different types of building design

2.2 Role of building design

3- General reminders for drawing buildings

3.1 Standards and recommendations (folding, cartridges, formats, etc.)

4- Representation agreements

4.1 Roles of representation conventions

4.2 Conventional representation groups

5- The different flat graphic representations

5.1 Plan view

5.2 The cuts

5.3 The facades

5.4 The quotes

5.5 Volumetric representations (perspectives)

Assessment method: Continuous 100%

Bibliographic references

To be defined by the teacher

Semester 1	
Teaching unit	EU. Fundamental
Matter	Space planning
Coefficient	2
Credit	4

Teaching objectives

- Understanding the complex physical and social processes that control the functioning of territories.
- Introduction to regional planning and sustainable development.
- Knowledge of the instrumental and decision-making aspect of regional planning (legal framework, actions, actors and planning instruments)

Recommended prior knowledge

Content of the subject:

1- **Regional planning:**Concepts
- Planning, territory, regional planning.
- Background: awareness of spatial inequalities.
- Space and society: awareness of social inequalities.

2- **The purposes and objectives of regional planning**
- General principles of planning.
- Approaches and development actions: (physical environment, rural environment, urban environment, regional environment)
- Development scales, territorial divisions and the concept of development perimeter.

3- **Territory and development themes:**
- The urban phenomenon: The process of urbanization and the complexity of urban reality.
- Planning and economic development.
- Planning and environmental issues.

4- **Land use planning and the planning process:**
- National territorial policy (regional planning and sustainable development).
- Development instruments and tools.
- The stages of development and the perspectives.

- **Practical cases:**

  Study of several cases of development operations:
  - Theoretical aspect.
  - Analysis of examples.
  - Comparative study.

Assessment method: Continuous assessment 40% Exam 60%

Bibliographic references

- GRAFMEYER Y, FIJALKOW Y., Urban sociology, A. Colin, col. 128
- DUPUY G., GENEAU de LAMARLIERE I. New scales of firms and networks. A challenge for planning, L"Harmattan, 246 p, 2007
- COMBY J, RENARD V, Land policies, PUF Paris, Que sais-je 3143, 1996.
- BROWAEYS X, CHATELAIN P., Studying a municipality. Landscapes, territories, populations, societies, Armand Colin, 2005.
- George P. Dictionary of Geography. PUF, 5th edition, Paris, 1996.
- RONCAYOLO, Marcel., The City and Its Territories. Folio Essays Editions. Paris, 2010.
- MANCEBO F., Environmental issues for planning and urban development .Edition du temps, Nantes 2003.
- PAUL LACAZ J., Introduction to urban planning, Bridges and roads, 2nd edition 1995.
- PAULET JP, Urban geography manual, Armand Colim, 3rd edition 2009.
- PEREIRA D., Evaluate your knowledge of the environment and sustainable development, you and the global challenges of tomorrow, Paris 2007.
- BEREZOWSKA –AZZAG E., Urban project: methodological guide, understanding the context of sustainable development, Synergie, Algiers 2010.
- COUTARD O, LEVY JP, Urban ecology, Anthropos, Paris, 2010.
- BASSAND M, KAUFMANN V, JOYE D., Issues of urban sociology, Espace en société collection 2007.
- VIDAL R, RODRIGO., Fragmentation of the city and new modes of urban composition, Collection Villes et entreprises Paris 2002.

Semester 1	
Teaching unit	EU. Fundamental
Matter	Seminar 1
Coefficient	1
Credit	2

Seminar 1:

Discovery of professions and introduction to the professional environment Teaching objectives

The main objective of the seminar is to supplement the lessons provided with insights provided by a panel of researchers and professional actors from the urban technical management professions.

Content of the subject:

The professional license is structured around a common core, allowing the acquisition of general skills for exercising city management professions.

To respond to this interdisciplinarity, the teaching team is made up of teachers, but also professional actors, who bring their skills and their visions of the professions linked to the management of cities and the control of projects.

This seminar will be led by professionals and will allow students to familiarize themselves with the world of work and learn about the professions.

Students will be encouraged to contribute to debates and participate in fairs or open days.

The conference cycle and the program will vary.

Assessment method: Continuous assessment 100%

Bibliographic references: To be defined by the teacher.

Semester 1	
Teaching unit	EU. Methodological
Subject 1	Mathematics and statistics
Coefficient	2
Credit	4

Teaching objectives

This subject allows the student to integrate the mathematical and statistical tool into the GTU bachelor's degree training. The aim is to familiarize the student with mathematical analysis and statistical calculation.

Recommended prior knowledge

The student must have knowledge of functions, integrals and random variables.

Content of the material

This course has two parts: elements of infinitesimal calculus and some elements of probability and statistics.

1. Mathematical analysis

1.1 Real functions of a real variable: Real numbers - Main functions (power, exponential, logarithm) - Limits, continuity, derivatives - Study of variations - Search for extrema - Primitives and integration.
1.2 Real functions of several real variables: Partial derivatives - Optimization - Three-dimensional graphical visualization.

2. Some elements of probability and statistics:

2.1 Descriptive statistics.
2.2 Elementary introduction to probability calculus. 2.3
Introduction to hypothesis testing.

Assessment method: Continuous assessment 40% Exam 60%

Bibliographic references

- KadaAllab, Mathematical Analysis for the first year of university. Ed. OPU.
- .JeanBouyer, 2000- Statistical methods: medicine-biology. Ed. Estem.
- Gilles Stoltz AndVincent Rivoirard, 2012-Mathematical Statistics in Action. Ed. Vuibert, Paris, 448p.
- Maurice Lentilleux, 2013-Descriptive statistics. Ed. Dunod, Paris, 160p.
- Maurice Lentilleux AndCeline Chevalier, 2013-Probabilities : Statistical estimation. Ed. Dunod, Paris, 160p.

Semester 1	
Teaching unit	EU. Methodology
Matter	Computer science
Coefficient	2
Credit	4

Teaching objectives

The main objective of this subject is to teach students the basic concepts of computer science, hardware and software. Operating system, Windows. Word and Excel. Introduction to Autocad CAD. 2D drawing.

Recommended prior knowledge Subject

content:

1 -General information on computers

1.1 Definition
1.2 Areas of application

2- Composition of a Computer

2.1 Hardware part (HARD)
2.2 Software part (SOFT)

3- Microsoft Office

3.1 Word
3.2 Excel
3.3 Power point

4- Introduction to Autocad CAD

Assessment method: Continuous 100%
.

Bibliographic references: To be defined by the teacher

Semester 1	
Teaching unit	EU. Methodological
Subject 3	Communication technique
Coefficient	1
Credit	1

Teaching objectives

Communication, signal, reception. Information and communication. Modes of communication.

Recommended prior knowledge Subject

content:

- General introduction
- How to get information
- Gather a file
- Creativity
- Retention of information
- Information processing
- How to inform?
- Presentation technique
- Facilitating a discussion group

Assessment method:100% exam

Bibliographic references

- Balle Francis, Media and Society, Paris, Montchrestien, 1999
- Belisle Claire (dir.), Communication and new technologies, Villeurbanne, PPSH-CNR, coll. “The paths of research”, 1993, 394 p., p. 16
- MattelartArmand, The Globalization of Communication, Paris, PUF, coll. “What do I know?” (no. 3181), 1996
- Breton Thierry, The Invisible Dimension: The Challenge of Time and Information, Paris, Odile Jacob, 1991, 287 p.

Semester 1	
Teaching unit	**EU. Discovery**
Subject 1	**Urban legislation 1**
Coefficient	**2**
Credit	**2**

Teaching objectives

Introduction to the concepts of legislation and law. Urban planning law. Urban planning regulations. Land and its management.

Recommended prior knowledge Subject

content:

1- Space planning tools
   - Land law
   - Urban planning tools
   - Urban legislation
   - Interventions on the city
   - The city's actors

2- The history and general principles of urban planning law
   - The division of problems
   - The birth of coherent legislation
   - Confirmation of the predominance of the state

3- The Developments
   - General principles of urban planning
   - legal tools
   - the common logic of these tools
   - management of development operations

Assessment method: Continuous assessment 40% Exam 60%

Bibliographic references

- BERGEL J.-L., General Theory of Law, Dalloz, coll. Methods of Law, 1989, 2nd ed., 342 p.
- CHAPUISAT J., Urban planning law, PUF, coll. What do I know?, 1991, 125 p
- CARBONNIER J., Legal sociology, PUF Thémis, 1978, 423 p
- JACQUIGNON L., DANAN Y.-M., Urban planning law, Eyrolles, 6th ed., 1978,
- 410 p.

Semester 1	
Teaching unit	EU. Transversal
Subject 1	Language .English 1
Coefficient	1
Credit	1

Teaching objectives
Mastery of the basics of terminology. Vocabulary and text study.

Recommended prior knowledge
Basics of grammar.

Content of the subject:

- Grammatical analysis
- Lexical analysis
- Text study
- Terminology
- Construction

Assessment method:100% exam

Bibliographic references

To be defined by the teacher

Semester 2	
Teaching unit	EU. Fundamental
Subject 1	Introduction to urban planning 2
Coefficient	2
Credit	4

Teaching objectives

Introduction to urban policies. Planning, urbanization. Urban issues. Planning and urban development instruments in Algeria. Actors and stakeholders.

Recommended prior knowledge Subject

content:

1. Urban Policy and Urban Social Movements
   - Overview of the technical methods for designing urban planning documents
   - Implementation and logic of the actors
   - Urban planning tools
2. Structure and Urban Network

Assessment method: Continuous assessment 40% Exam 60%

Bibliographic references

- BEAUJEU-GARNIER, Jacqueline. 2006. Urban Geography. Editions Armand Colin. Paris.
- BELMER, Jean. 2011. For a project-based urban planning, from development to urban renewal. Editions Ellipses. Paris.
- IBAN, David. 2011 “Cities of Diversity. Territories of Living Together,” Anthropos/Economica, Coll. Géographie, Paris, 150
- LACAZE, Jean-Paul. 2010. The methods of urban planning. PUF Editions “What do I know?”. Paris.
- PANERAI, Philippe, Jean Charles DEPAULE and Marcelle DEMORGON. 1997. Urban Analysis. Editions Parenthèses. Marseille.
- RONCAYOLO, Marcel. 2010. The City and Its Territories. Folio Essays Editions. Paris.
- MANGIN, David. 2004. The Franchised City: Forms and Structures of the Contemporary City. Editions de la Villette. Paris.

Semester 2	
Teaching unit	EU. Fundamental
Subject 2	WORKSHOP 2: Habitat and file of Construction
Coefficient	4
Credit	8

Teaching objectives

The main educational objective of the workshop is to introduce students to the urban design process. This involves teaching them to distinguish the specific moment of design and strengthening and developing their knowledge of the urban vocabulary of graphic design and technical drawing.

Recommended prior knowledge Subject

content:

- Application projects (Buildings, civil engineering structures, hydraulic structures, etc.)
- Project presentation
- Purpose of the project
- Location and location
- Programs
- Description
- Work requested
- Implementation
- The different flat representations (plans, sections and facades)
- Volume representations

Assessment method: Continuous 100%

Bibliographic references

To be defined by the teacher

Semester 2	
Teaching unit	EU. Fundamental
Matter 3	Urban planning
Coefficient	2
Credit	4

Teaching objectives

The objectives of the subject are to enable students to:

- Understanding different languages related to urban planning.
- Introduction to diagnostic and urban planning methods (analysis and interventions).
- Knowledge of the regulatory and instrumental aspect of urban planning (legal framework, actions, actors and planning instruments)

Recommended prior knowledge Subject

content:

1- planning and urban development:

- The city: determining factors.
- Links between general land use planning and urban planning.
- Theoretical rules of urban planning.

2- Urban policy in Algeria:

- The evolution of planning policies.
- The general principles of urban policy.
- Local development and the decentralization process.
- The actors and means of implementing the development policy.

3- Reading urban space:

- Urban planning and strategic planning (the city and its environment).
- The urban landscape: perception of urban reality.
- Urban growth: density, economic activity, spatial configuration.
- Urban composition: land, urban form, real estate market.

4- Development actions and urban planning instruments:

- New themes for development actions (sustainability, preservation, mobility, urban renewal, performance, etc.)
- Urban interventions: renovation, restructuring, rehabilitation, reorganization, densification, etc.
- Urban planning instruments (PDAU, POS).

▪ **Practical cases**:

- Presentation: analysis of examples.
- Field observations, analysis and understanding of the concrete situation (site visits, deciphering urban reality).
- Quantitative and qualitative programming.
- Reading of planning and urban development instruments (PDAU,POS).
- Critical analysis.

Assessment method: Continuous 40% Exam 60%

Bibliographic references

- JACQUOT H. . "Land use plan - development management -", in Yves Jégouzo, ed.Urbanisme (Dalloz, Paris) 1997
- RONCAYOLO, Marcel.. The City and Its Territories. Editions Folio essais. Paris 2010.
- CHALINE C., City Policies, What do I know?, PUF Paris 2000
- SAIDOUNI M., Introductory elements to urban planning, Casbah, Algiers 2000
- BOURDIN, Alain and Robert PROST. Urban Projects and Strategies, Comparative Perspectives. Editions Parenthèses. Marseille 2009.
- HOCREITERE P., MENG JP, Urban planning and local authorities, Ed. Berger - Levraut
- LAMIZET B., SANSON P., The languages of the city, Parenthèses, Marseille 1997
- MANGIN D., PANERAI P., Urban project, Parentheses, Marseille 1999
- INGALLINA P., The urban project, What do I know?, PUF, Paris 2001
- PANERAI P., DEPAULE JC, DEMORGON M., Urban analysis, Parenthèses, Marseille 1999 RIBOULET P., Eleven lessons on urban composition, Presse de l'ENPC, Paris 1998
- ALLAIN R., Urban Morphology; Geography, Planning and Architecture of the City, Arnand Colin2004.
- BEREZOWSKA –AZZAG E., Urban project: methodological guide, volume 2: understanding the urban project approach, Synergie, Algiers 2010.
- VIVIANO M., Practical guide to urban planning for architects and local authorities, Papyrus edition, Paris 20011.

Semester 2	
Teaching unit	EU. Fundamental
Subject 4	Seminar 2
Coefficient	1
Credit	2

Seminar 2:

Interview and CV preparation, oral communication, meeting facilitation

Teaching objectives

-Public speaking and speaking in meetings
- Acquire methods of preparing, conducting and concluding meetings and interviews.
- Use the key factors for successful oral communication: Being and remaining in the exchange.
- Manage the meeting and the interview effectively.
- Real-life scenarios.

Content of the subject:

-Interview and CV preparation

- Oral communication and meeting facilitation

The cycle of conferences as well as the program will be variable, specialists will be invited by the responsible teacher.

Assessment method:100% continuous assessment

Bibliographic references

• Jacques Piveteau, DiderNoye, 1993, How to communicate effectively, INSEP editions.

• Dider-Noye, 2012. Managing Conflicts, From Confrontation to Cooperation.
Julhiet, Collection: The Basics of Management.

Semester 2	
Teaching unit	EU. Methodological
Matter 1	Computer-aided design (CAD)
Coefficient	2
Credit	4

Subject objectives:

Introduce basic knowledge in the field of IT Initiate a "digital culture", develop a methodology for research, structuring and presenting information. Provide students with work tools allowing them to produce graphic pieces of the project more quickly and with high precision.

Experiment with an interactive tool that provides the architect with various manipulation possibilities in 2D and 3D, providing access to rapid verifications for conceptual choices.

Understand the methodological differences in using prototyping and production tools as design support.

Content of the material

- Introduction to basic knowledge (notion of information, database and its representation)
- Knowledge of the operating system
- Presentation of the CAD software (general information, command syntax, entity properties)
- Drawing commands (precision tools, layers, text, dimensions, graphics ...)
- Editing commands (selection, selection modes, parameters...)
- Learning a 3D design tool (coordinate system; 3D wireframe, surface and solid modeling; axonometric and perspective projections,
- Basic notions of surface and solid processing tools and techniques (Boolean operations): rotation in space, symmetry, etc.)
- Concept of introducing cameras into a construction project and how to create a tour.

Assessment method: Continuous 100%

Bibliographic references:
To be defined by the teacher at the start of the semester

Semester 2	
Teaching unit	EU. Methodological
Matter 2	Construction technology and materials
Coefficient	2
Credit	4

Teaching objectives
To teach students about the different types of old and new building materials and their technical characteristics, as well as the basic concepts of building construction.

Recommended prior knowledge
The student must have acquired a good knowledge of geology and physics and chemistry

Content of the material:

Binder numbers:
1.1 Aerial binders
1.1.1 Lime, plaster, magnesium binders
1.2 Hydraulic binders
1.2.2 Hydraulic lime
1.2.3 Roman cement
1.2.4 Silico-calcareous products
2- Mixing water 3 -
Admixtures
3.1 Classification according to the role of each adjuvant
3.2 Role and influence of each adjuvant
4 Aggregates (sand, gravel and crushed stone)
4.1 Introduction and definition, classification, granulometric analysis, water content and impurities.
4.2 Manufacturing process
5- Concrete (heavy and light) and mortar
5.1 Introduction and classification
5.2 Concrete composition methods
5.3 Concrete shrinkage and creep
5.4 Fresh concrete
5.5 Hardened concrete
5.6 Special concrete

6. Basic provisions of the construction industry
6.1 Basic concepts
6.2 Construction process technology
6.3 Application of technical means, efficient materials, components and structures
6.4 Construction of reinforced concrete

structures Assessment method: Continuous 40%

Examination 60% Bibliographic references

To be defined by the teacher

Semester 2	
Teaching unit	EU. Methodological
Matter 3	Introduction to cartographic documents
Coefficient	1
Credit	1

The objective of teaching

The objective of teaching this subject is to achieve mastery of consultation, examination and use of cartographic documents in the field, in this case in workplaces.

Content of the subject:

1- Introduction and historical overview of cartography

2- Types and definitions of cartographic documents: maps, diagrams, plans and sketches

3- Card classification:

a)- according to the scales

b)- according to their capacities c)- according to the territory

d)- according to their destinations e)- according to the

" THE systems of projections cartographic: System of Contact detailsGeographic (SCG)

4-World Geodetic System (WGS): CLARKE80, HAYFORD and (GRS80)

5- Global Positioning Systems (GPS)

6-The basis of Algerian cartography

-The Algerian topographic map

-The Algerian geological map

-Diagramming documents andgeomorphological interpretation (simplified sections and structural diagrams)

7-Thematic maps: inventory maps, development maps, synthetic maps and cartographic documents linked to the organization of space.

Assessment method: Continuous 100%

Bibliographic references

To be defined by the teacher

Semester 2	
Teaching unit	EU. Discovery
Matter 1	Urban legislation 2
Coefficient	1
Credit	1

Teaching objectives

Legal instruments. Property rights. Public interventions and rights. Urban planning law

Recommended prior knowledge

Content of the subject:

- Land
  - Urban planning law and property law
  - urban planning and property relations
  - the right to property
  - Land institutions and urban land acquisition and land law (LOF)
    - average urban planning of public intervention
- Real Estate Management
- Legislation governing interventions on existing tissues

Assessment method:100% exam

Bibliographic references

- GAILLARD M., The intelligence of law, Les Editions d'Organisation, 1992, 256 p.
- BAGUENARD J., BECET J.-M., Local Democracy, PUF, coll. What do I know?, 1995, 1st ed., 127 p.
- GUILLOT M., From administration to the government of cities, Public law thesis, Faculty of Legal Sciences, Lyon 2, 1993, 492 p.
- JANIN P., Space in internal public law, State doctoral thesis in law, Lyon III, 1996, 830 p.
- LECOCQ P.-A., The administration's power of derogation, Law thesis, Lille, 1971, 3 volumes, 1117 p.

Semester 2	
Teaching unit	EU. Discovery
Matter 2	Practical training
Coefficient	1
Credit	1

Teaching objectives

To strengthen students' knowledge in this area, a practical internship supervised by a teaching team, at the level of the technical services of the economic sector directorates is necessary:

Land and urban land issues with services from:

- The land registry
- Land conservation
- The areas and with
- the Office of Promotion and Real Estate Management (OPGI) of the wilaya

Assessment method:100% continuous assessment

Bibliographic references:

To be defined by the teachers in charge of the subject.

Semester 2	
Teaching unit	EU. Transversal
Matter 1	Language. English 2
Coefficient	1
Credit	1

Teaching objectives
Assimilation and initiation to writing.

Recommended prior knowledge Subject

content:
English.
Terminology. Vocabulary and text study. Writing

Assessment method:100% exam

Bibliographic references

To be defined by the teacher

Semester 3	
Teaching unit	EU. Fundamental
Subject 1	Workshop 03: Urban Project Diagnosis
Coefficient	4
Credit	8

Teaching objectives

Urban diagnosis, an approach to be developed

Far from being a simple assessment of a situation, the territorial diagnosis is first and foremost a time to empower the territorial stakeholders to act. As part of a territorial development approach, the diagnosis must allow for the formulation of a judgment on the coherence of the territory and the mobilization of stakeholders.

The methodological knowledge of territorial diagnosis in project management should enable students to transfer their knowledge to the professional situations they will encounter in any local development issue.

The objectives are:

• master the concepts and master the tools related to the practice of a diagnosis

• acquire rigorous working methods to conduct and deliver a territorial diagnosis.

Content of the subject:

An approach to action : The diagnosis constitutes an important moment in the process of developing a territory. It instruments it, supports it and seeks to guide it. There are two interlinked phases:

1- Elements of the context and actual state of affairssaid: that is to say the organized analysis of the facts and actions which characterize a territory. The inventory often consists of considering the territory as an organized and hierarchical system, of which we analyze both the structuring elements and the relationships between these elements.

The workshops involve, among other things, the identification of the issues of a territory and their problematization with regard to the order, the analysis of an urban space from data, and the construction of an analysis grid (situation, morphology, accessibility, posing a problem, characteristics of the territory through the evolution of the urban task, topography, history of the site, urban landscape, etc.) It is a question of using different types of analyses, historical, typo-morphological, landscape, socio-economic) as a "tool" for description and classification, reading and explanation of the observed urban space. The diagnosis must bring out the weaknesses and strengths of the territory studied.

2-Determining the issues: it is the formulation in economic, social or environmental terms of the possible effects of the dynamics at work and the risks incurred.

Assessment method:100% in continuous review.

Bibliographic references: To be determined by the teaching team

Semester 3	
Teaching unit	EU. Fundamental
Subject 2	Urban project: concepts and foundations
Coefficient	3
Credit	6

Teaching objectives

The urban project is both a concerted process and a territorial project: it consists of defining and implementing development measures in a given urban territory, in partnership with the different stakeholders, integrating the different territorial scales and the long term, with a view to sustainable urban development.

The program for this subject consists of giving students some basic notions on urban projects (concepts, principles, issues and scales, approaches, relations with urban policy).

Recommended prior knowledge:
General notions about the city, the components and structure of the city.

Content of the subject:

1- General information on the urban project
a) Definition of the concept
b) Genesis and history of the urban project

2- Scales of the urban project
a) local level
b) regional level
c) national level

3- Urban project approach
4- Actors and challenges of the urban project

5- Operational scope of the urban project
a) urban heritage project
b) project on a neighborhood
c) to make city after city
d) faced with the diversity of urban projects

6- Urban project and city policy
7- Examples of urban projects

Assessment method: 60% continuous and 40% exam.

Bibliographic references: To be determined by the teaching team

Semester 3	
Teaching unit	EU. Fundamental
Subject 3	Geography of cities
Coefficient	2
Credit	4

Teaching objectives

This module allows you to understand the different types of cities and their urban structures while highlighting how relationships are established in an urban system.

Recommended prior knowledge

General notions about the city, the components and composition of the city, its structure and the different possibilities of development of the city.

Content of the subject:

1- General introduction

- History of the City
- Definition of the city
- The evolution of the urban aspect
- Differentiation between city and country

2- Medieval towns and their characteristics

- Islamic cities and their characteristics

3- Urban planning and the development of medieval towns

- Urban planning and the development of industrial cities

4- City structure

- Checkerboard, radioconcentric, linear, prestige and plan without plan

5- City characteristics: (city type)

- Mining town; industrial; commercial (wholesale); commercial (retail); transport; cultural and educational; tourism and leisure; multi-functional; historical and religious.

6- Relationship of cities (between them)

- Jefferson's Theory
- Ziff Theory
- Crystal Theory
- Calculation of influence radii

7- Methods of limiting and locating the city center (CBD)

8- Urban Network in Algeria

- Urban function
- Structuring and organization of the urban network
- development components
- Urban network and economic development

Assessment method: 40% continuous and 60% exam.

Bibliographic references: To be determined by the teaching team

Semester 3	
Teaching unit	EU. Methodology
Subject 1	Remote sensing
Coefficient	1
Credit	1

Teaching objectives

The objective of this subject is to provide the student with the necessary foundations to produce cartographic documents according to a set of rules;

- to acquire skills in synthesis and restitution of work in several forms (map, photo, statistical processing, analysis, choice of graphic means, cartographic design and layout, etc.).

Recommended prior

knowledgeCartography, spatial analysis,

CAD. Subject content:

- Reading cartographic documents and introduction to CAD
- Definitions and information to be extracted: relief, contour line, cities and human settlements, hydrographic networks, projection system, etc.
  - Aerial photography;
  - Remote sensing satellite image;
  - Introduction to the automatic card.

Assessment method100% review.

Bibliographic references: To be determined by the teaching team

Semester 3	
Teaching unit	EU. Methodology
Subject 2	Roads and various VRD networks
Coefficient	2
Credit	4

Teaching objectives

Considering roads as infrastructure(networks techniques), requiring the implementation of geometric design and calculations.
This subject will allow students to:
Know the main characteristics of road and urban road equipment.

-Stages of existing projects.
-Evolution of methods.
-Evolution of the organization.
-Evolution of planning principles

Recommended prior knowledge

- Main characteristics of urban road equipment;
-Urban analysis (land use or space consumption, organization, structure and configuration of urban textures, etc.);
- The interaction between urban planning and urban traffic;
-The impact of socio-economic and cultural factors in determining certain spatial forms and structures.

Content of the subject:

CHAPTER 1: ROADS

1- General information: classification and method of financing urban roads
- Traffic
- The extent and nature of the area served
- The typology.

2- Classification of routes

3- Elements of urban traffic studies
- Traffic Analysis
- Probable Evolution of Various Modes of Transport
- Predictable Traffic in Urban Areas

4- Earthworks and Calculation of Volumes
- Soil Classification
- The Calculation of Cubatures
- Execution of Earthworks.

5- Geometric Characteristics of Non-Rapid Urban Roads
- Land Marking
- Field Survey and Measuring Instruments
- Identification of existing networks
- Altimetric and Planimetric Connections

6- The Layout of the Tracks

- Track Profiles (longitudinal profiles, cross-sectional profiles)
- Recommendations for the plan layout
- THEShoes(The Composition of Roads, Calculation of the Roadway, Accessories of the Roadway).
- Sidewalks and pedestrian walkways
- crossroads
- parking
- special works

CHAPTER 2: GENERAL EARTHWORKS

1 - Definition
2 -Technical constraints
3 - Economic constraints 4-
Land expansion
5 - Land settlement
6 -Slopes and embankments
7- Calculation of cubic capacities
8- Interpretation of results

CHAPTER 3: PUBLIC LIGHTING

1- General - Exterior lighting - Ambient lighting lamps
2- Calculation methods – calculation hypothesis
3- Calculation of sections
4- Lightingexteriors
5- LightingInteriors
6- Power balance
7- Grounding
8- Electrical equipment

CHAPTER 4: GAS NETWORK

- Design and implementation techniques

CHAPTER 5: TELEPHONE NETWORK

- Design and implementation techniques

Assessment method:40% continuous and 60% in exam.

Bibliographic references: To be determined by the teaching team

Semester 3	
Teaching unit	EU. Methodology
Subject 3	Topography
Coefficient	2
Credit	4

Teaching objectives

It consists of providing the student with the basic notions of topography and teaching him how to make topographic measurements, intended for the development of topographic plans in the execution of works in the field of the different bodies of the city.

Recommended prior knowledge

Math, technical drawing, cartography.

Content of the subject:

I. INTRODUCTION

1. GENERAL NOTIONS
2. Geodesy
3. Topography
4. Shape of the Earth
5. Projection system
6. Geographic coordinates
7. Orientation (The three Norths)

II. Topography

III. Notion on Faults and Errors.

1. The mistakes
2. The mistakes
3. Statistical findings on direct measurements

IV. Distance measurement

1. Distance measuring instruments
2. The staking
3. Flat measurement
4. Measurement accuracy
5. Direct measurements
6. Indirect length measurement

V. MEASURING ANGLES

1. Units of measurement of angles
2. The theodolite
3. Measurement of horizontal angles
4. Measuring vertical angles

Assessment method: 40% continuous and 60% in exam.

Bibliographic references: To be determined by the teaching team

Semester 3	
Teaching unit	EU. Discovery
Subject 1	Internship and outings
Coefficient	1
Credit	1

Teaching objectives

To strengthen students' knowledge of this subject, a practical internship supervised by a teaching team, at the level of the technical services of the economic sector directorates, is necessary. This will cover:

- The roads and their traffic and congestion problems with the services of the (DTP) of the wilaya
- Energy distribution (electricity and gas) and road problems and precarious housing
- Drinking water distribution and network problems (AEP) with the services of the (DHW) and the (ADE)
- The recovery of household and rainwater through the sewerage system and urban flooding problems with the services of (ONA).

Assessment method:100% continuous assessment

References:to be defined by the teachers responsible for the subject.

Semester 3	
Teaching unit	EU. Transversal
Matter	Changesclimatic
Coefficient	1
Credit	1

Teaching objectives

The climate change subject aims to provide students with knowledge related to the consequences of climate change and its impact on cities.

Projections predict an amplification of global warming, leading to climate change through extreme phenomena such as heat waves, heavy rainfall, and a direct impact on individual health.

These phenomena have a direct impact on urban environments through the urban heat island effect due to the widespread mineralization of cities to the detriment of the plant cover, which creates a situation of thermal discomfort as well as excess energy consumption in buildings, with increased risks of flooding causing disasters in neighborhoods as a consequence of the waterproofing of urban surfaces.

Recommended prior knowledge

The necessary knowledge concerns basic notions in physics, meteorology, heat balance in an urban environment, remote sensing, statistics.

Content of the subject:

1/ The climate.

Notions on meteorology and climatology. Types and scales of climate. 2/ Impact of climate change on territories.

- Desertification, decrease of the surfaces plant. Loss of the surfacesevapotranspiration, loss of territories.
- Rising sea levels, contamination of groundwater.
- Increase in heat waves.
- Torrential rains.

3/**Impact of climate change on urban environments.**

- Complex problems of urban growth and very rapid population change.
- Urban heat island phenomenon (thermal comfort, energy efficiency of buildings).
- Natural flood risks in urban areas (Disasters).
- Impact on the health of residents (Emergence of new diseases. Invasion of new animal species)

4/**Management tools**

- Use of climate data in urban project management.
- Energy balance, digital simulation tools.
- Preservation and reintroduction of plant areas in cities.

- ORSEC flood plan.
- Permeabilization of surfaces and use of absorbent materials.

Assessment method: 100% in review.

Bibliographic references:

-BURROUGHS WJ(2000).Understanding the climate.Edition delachaux et niestlé.
- CHEMERY L. (2006) Small climate atlas. Larousse.
- CLERGEAU P. and BLANC.N. (2013) Urban green networks: from scientific research to urban projects. Edition du Moniteur. Paris. 339p.
- ESCOURROU G. (1981) Climate and environment. Local factors of climate. Coll. geography. In: Men and Lands of the North, Physical Geography. p. 87.
- GIVONI B. (1978). Man, Architecture and Climate, Edition du Moniteur, Paris.

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- LEDOUX B. (2006) Flood risk management. TEC ET DOC Edition. Paris.
- ROGERS R. (2009) Sustainable cities for a small planet. Edition Le Moniteur. 212 p.
- SCIAMA Y. (2007) Climate change: A new era on earth. Larousse edition.

- SELTZER P. (1946) The climate of Algeria. Institute of Meteorology and Global Physics. Edition Typo litho and Carbonel.j. 219 p.
- XAVIER L. and JEAN P. (2004) Risk and urban planning. Edition Le Moniteur. Paris.
- VU T C. et al. (1998).Reduction in air conditioningenergy caused by a nearby

park, Energy and Building, 29, pp.457-463.

Semester 3	
Teaching unit	EU. Transversal
Matter	City and Sustainable Development
Coefficient	1
Credit	1

Teaching objectives

Train urban and territorial professionals in the spirit of sustainable development and urban policy, capable of becoming facilitators and mediators in urban planning and development projects. Any infrastructure project is built around multiple scenarios that bring together opposing interests and social groups. There is room for professionals with three skills:

-Analytical: using the conceptual and methodological tools of social sciences and urban planning,

-Technical: Useful for new towns and other smart cities to bring the city into line with technological developments,

-Relational: to create a public space for debate, confrontation and consultation.

-The main objective is to prepare students to understand and productively manage "conflicts of use" in the areas of planning, urban development and the environment.

-Conflicts of use oppose social groups who share the same space but with different lifestyles, interests and values.

Recommended prior knowledge

The necessary knowledge concerns the basic concepts of urban planning, urban legislation, urban planning instruments and urban development.

Content of the subject:

The content concerns environmental management, relations between towns and countryside, inter-municipality, the organization of towns and neighborhoods, housing, communications, transport, intercultural and inter-ethnic relations, etc.

Sustainable development and urban policy must take them into account with a view to strengthening local democracy and citizen mobilization.

- The environment and sustainable development,
- Sustainable urban development and control of urban growth,
- The city and urban sociology: spatial coherence, social cohesion
- The city and urban ecology: the issue of climate and sustainability;
- The city and the economy: the challenges of socio-economic sustainability

- Urban policy: responses to climate change in cities
- Approaches and tools for making the city sustainable: new trends in eco-development of cities: Ecopolis, garden cities, eco-urbanism, vertical forests, etc.

Assessment method: 100% in review.

Bibliographic references:

- ADEME, 2006. Succeeding in a sustainable urban planning project, Method in 100 sheets for an environmental approach to urban planning (AEU). Paris: Le Moniteur.
- Ali-Toudert, F., 2000. Integration of the climate dimension in urban planning, Master's thesis, urban planning option. Algiers: National School of Architecture (ENSA ex EPAU).
- Ascher, F. & Giard, J., 1984. Tomorrow the City?. 2000 ed. Paris: Editions sociales.
- Athmani, F., 2006. Urban planning instruments. 2006 ed. Constantine: University of Constantine.
- Catherine Charlot-Valdieu, PO, 2009. Sustainable urban planning: designing an eco-district. Paris: Le Moniteur.
- Daligaux, J., 2005. Urbanization and environment on the coasts: a spatial analysis. [In line]Available at:http://rives.revues.org/document12.html
- [Accessed 05/27/2007].
- E. Wench et al., 2009. Landscape ecology principles in landscape architecture and land-use planning. 2009 ed. Washington: Harvard University.
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- Mennouba, U. d., 1999. Sustainable urban development in coastal areas. Mahdia, sn
- Ministry of the Environment, 1995. Practical guide to eco-planning, the environment in urban planning. Paris: Caisse des Dépôts et Consignations.
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Semester 4	
Teaching unit	EU.Fundamental
Subject 1	Workshop 04: Urban project: urban interventions
Coefficient	4
Credit	8

Teaching objectives

The process of urban growth, overcrowding in old neighborhoods, the continued proliferation of human settlements, uncontrolled urbanization, in many cases, aging, the effect of disasters and natural risks, have created dilapidated cities.

In this context, operational urban planning represents an essential field of application for improving the quality of urban space.

Recommended prior knowledge

-Know some urban concepts: e.g.: subdivision, housing group, equipment, urban project.

-Understand the foundations of operations, urban forms and their genesis

-Know the urban and architectural characteristics of an urban entity; allowing the city to be built on the city (intervention on the existing).

Content of the subject:

The workshop work, Operational Urban Planning, will be translated into urban interventions on the existing urban fabric: Urban Renewal, Urban Renovation, Urban Requalification, Urban Regeneration, etc.

1- The aim is to return to the urban diagnosis and the inventory (strengths, weaknesses and challenges) previously drawn up.
2- The choice of a strategy: this is the prioritization of issues based on the observed dynamics and the objectives targeted.
3- The proposal of possible courses of action: this is the open argumentation of measures or actions allowing change in the direction desired by the actors:
   - Urban programming.
   - Diagrams of the principle.
   - Structural diagrams.
   - Urban intervention plan.

Several issues related to city management will also be addressed in these projects:

1- Urban analysis and survey techniques.
2- Funding.
3- Specifications and legal framework.

Assessment method:100% continuous.

Bibliographic references: To be determined by the teaching team.

Semester 4	
Teaching unit	EU. Fundamental
Subject 2	Operational urban planning
3	3
Credit	6

Teaching objectives

Today's city is largely a legacy of urban planning operations, socio-spatial practices and physical transformations, due to demographic, climatic, social, technological and economic phenomena.

In this context, the student must benefit from a broad knowledge of analysis, ideas for innovation and intervention for the updating of the existing built environment; concluding them in several dimensions:

- The analytical reader in a broad dimension of architectural compositions and urban fabrics.
- Better understand the poly-functionality of architectural form and style (housing, unbuilt space, equipment, etc.)
- Operational knowledge of the background of stakeholder interaction (urban product)
- Learning on a more specific scale of techniques and methods of analysis - simulation of problems in architectural and urban space.
- Preparation of urbanization action in the field of high-level planning (the presence of major urbanization strategies, technical-administrative directives, and practical mastery of urbanization parameters on a larger scale).

Recommended prior knowledge

Concept of urban planning, technical drawing, urban legislation, cartography, topography and demography.

Content of the subject:

The problem of operational urban planning requires a broad knowledge of all the accumulative phenomena of existing buildings, such as: the degradation of the physical framework, socio-spatial practices, technical transport problems, environment, etc.

This subject aims at the theoretical understanding of the tools of operational urban planning, and deepens the courses of the Operational Urban Planning workshop, the content of these courses is as follows:

1. History of operational urban planning: (Haussmannian Paris works, etc.)
2. Renovation.
3. Restructuring.
4. Redevelopment: requalification, renewal, residentialization. Improvement of the living environment.
5. Rehabilitation, Restoration, development.
6. requalification

7. the reconversion

As for the tutorials, let us remember that this teaching is part of a methodological goal:

The aim is to provide students with some tools for urban analysis, seen from a spatial perspective, necessary for understanding an intervention context (the site of implantation, the city plan, the layout of the roads, etc.), in order to identify and understand its urban and architectural characteristics and discover its underlying models and structures (dimensions, functions, distributions, construction and aesthetic systems).

1. typological morphological analysis as a "tool" for description and classification, reading and explanation of the observed urban space, in order to:
2. identify its urban and architectural characteristics and discover its underlying patterns and structures
3. understand its urban forms and grasp their genesis, by highlighting the notion of interdependence and reciprocal relationship of all these components: built spaces (any three-dimensional object), unbuilt spaces (developed or not) and network spaces (linear surface, underground, aerial).
4. The elements to be considered at the level of the study perimeter are:

- Relative location, land use or space consumption (ratios between surface area, density, etc.).
-The location: the relative position of the various spaces between them, it is therefore a question of urban composition.

Organization, structure and configuration: understanding the principles and methods that guided the creation of the model in question.

- The state of the built environment and construction methods.....
- The case study: the example studied consists of an urban perimeter delimited by specific conditions (neighborhood, subdivision, residential area, etc.).

Assessment method:40% continuous and 60% in exam.

Bibliographic references: To be determined by the teaching team.

Semester 4	
Teaching unit	EU. Fundamental
Subject 3	Urban hydraulics
Coefficient	2
Credit	4

Teaching objectives

Urban hydraulics essentially deals with the problem of designing drinking water distribution networks and wastewater and rainwater drainage in urban areas.

This subject advocates an overview of urban hydraulics based on the importance of water in human activities and the environment. In particular, it allows for the sizing of the main elements of water supply and sanitation systems in urban areas.

Recommended prior knowledge

Climatology, chemistry, mathematics, physics, topography.

Content of the subject:

1-Introduction:

Sources and nature of water; natural and artificial water cycles, groundwater and surface water. Water supply: needs, forecasts and standards.

2-Drinking water supply

Supply systems and their elements (water intakes, supply lines, reservoirs and water distribution networks) as well as their equipment and calculation methods.

3-Sanitation

Wastewater disposal: discharge volumes; sanitary and storm sewers; equipment and calculation methods.

Types of networks, design And sizing of a few worksurban sanitation

Urban sanitation network diagnostic methodology

4-Hydraulic works

Dams and reservoirs

What they are made of and how all their ancillary works work. Size a reservoir, a surge stack, a treatment plant and a sewage treatment plant.

5-Pumps and pumping stations

Centrifugal pumps and axial pumps and various couplings. Pumping stations for drinking water and wastewater.

6-Water treatment

Evaluate the effect of different substances contained in water and recommend appropriate treatment techniques.

7-Wastewater treatment

urban wastewater treatment processes and the disposal of sludge resulting from these operations.

Assessment method:40% continuous and 60% in exam.

Bibliographic references: To be determined by the teaching team.

Semester 4	
Teaching unit	EU. Methodology
Matter	Urban management and marketing
Coefficient	3
Credit	5

Teaching objectives

The student will be able to understand how businesses operate and become familiar with their jargon. They will also develop their knowledge of the urban environment and acquire key skills in project management and urban marketing.

Recommended prior knowledge

Have thoroughly understood the subjects: public procurement and town planning law.

Subject content:

Management:

1. Roles and diversity of companies

Diversity of natures and roles of the construction company - general contractor and subcontractors, multi-purpose integrated company - size of the company. SMEs. Agencies. Subsidiaries

- Companies with an international vocation

2. Company services and organization

-Operational services: Works Department - Specialized divisions - One-off operations - Study services - Feasibility studies. Promotions

- Functional services: Technical studies - Tests. Laboratory - Execution methods. Planning - Equipment - Supplies. Supplies - Import - Export - Price studies / Estimates

3. Business management

Human Resources - Business Research - Submissions - Private Contracts - Innovations - Products - Contract Management - Operating Forecasts - Accounting - Financial Services - Legal Assistance - IT Tools

4. Company management

Selection and management of managers - Motivation. Profit-sharing - Delegation rules -Technical management - Management control - Investments - Corporate strategies and projects - Communication

5. Agency cases

Types of agencies - Degrees of independence and responsibility - Organization and management

Advantages and disadvantages of agencies - The agency in road company

6. Public services

Management methods - Local management - Guide diagrams for public services (Management plan for VRD, green spaces, public transport,waste: analysis, criticism, perspectives)

The organization of local public services in E-governance networks

Urban Marketing:

1. Urban Marketing and Economic Development
2- Urban marketing strategies: the “city as a product”
   - There strategy attractiveness (economic, sightseeing, residential, academic, cultural…)
   - Local attractiveness and international attractiveness of cities
   - The attractiveness of cities, the heritage issue: redevelopment of central districts
   - Attractiveness: Quality of life and quality of public spaces
   - Attractiveness: as an element of competitiveness
3- Competitiveness and geographical reach
4- Urban marketing, a tool for local development
5- Street Marketing: Sustainable Neighborhoods and Initiatives

Assessment method:40% continuous and 60% in exam.

Bibliographic references:

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forms of attractiveness in the promotion policies of the three “Capitals of Europe”, Téoros, 26-2 | 2007, 19-26.
- Vincent. Drecq. Project Management Practices. 40 Tools and Techniques for Making the Right Decisions. Dunod Edition, May 2014

Semester 4	
Teaching unit	EU. Methodology
Subject 2	Geographic Information System - GIS1
Coefficient	2
Credit	4

Teaching objectives

GIS (Geographic Information Systems) are now essential tools for land management professions that need to process spatially referenced data and communicate their results, particularly in cartographic form. The objective of this course is to enable participants to master the main functional areas of these tools (data acquisition; thematic, statistical and geometric processing; cartographic composition), and to be able to implement them within the framework of operational approaches.

Recommended prior knowledge

The student must have a good foundation in IT.

Content of the subject:

The course takes place on a computer in several working sessions devoted to concrete cases of management/diagnosis/land development operations. The first sessions allow students to get to grips with the GIS tool, the following sessions the complete integration of geomatics methods into operational issues.

Recommended software MapInfo or Arcgis:

1. **Basics of MapInfo or Arcgis**
    a. the notion of Table.
    b. The concept of databases.
    c. Geographic databases.
    d. MapInfo or Arcgis interface
    e. The toolbars.
    f. The windows are anchored.
    g. Floating windows.
2. **Layer Managers**
    a. Organize the diaper stack.
    b. Organize the characteristics of the layers.
3. **Create / Edit graphic data**
    a. Delete an object.
    b. Create an object.
    c. The drawing layer.
    d. Change the geometry of the drawing.
4. **Use of symbols**
    a. Surface symbols
    b. Point symbols
    c. Linear symbols

5. **Layout**
6. **Example of spatial analysis.**

Assessment method:100% continuous

Bibliographic references

- Bordin P., 2002, GIS, concepts, tools and data, Paris, Hermès.
- Denegre J. et al., 2004, Geographic Information Systems, Paris, PUF, Que Sais-je n° 3122.
- Lambert N., Zanin C., 2016, Cartography manual, principles, methods, applications, Paris, A. Colin.
-*http://cours-fad-public.ensg.eu* IGN distance learning support site
-*http://sphaera.cartographie.ird.fr/map link base*
-*http://liensutiles.org/cartes.htm*
-*http://georezo.net* French-speaking geomatics portal

Semester 4	
Teaching unit	EU. Discovery
Matter	Foreign language (English 4)
Coefficient	1
Credit	1

Teaching objectives

Teaching this subject will enable students to:

- Follow a technical course in English.
- Comment on a technical text, write a description
- Understanding a scientific article in English.

Recommended prior knowledge

- Consolidate the linguistic bases in English in communication.
- Knowledge acquired during the Bachelor's degree course.

Content of the subject:

- Technical English in the field of urban engineering companies.
- In-depth work on grammar and vocabulary.
- Common expressions of spoken language.
- Oral and written practice through audiovisual means and current press articles
- Manuals, technical sheets and documentation in English.

Assessment method:100% Control under review.

References:to be defined by the teachers responsible for the subject.

Semester 4	
Teaching unit	EU. Transversal
Subject 1	Waste management
Coefficient	2
Credit	2

Teaching objectives

The objective of teaching this subject is very relevant because the issue of urban waste is becoming more complicated every day. Urban waste is rapidly altering the landscape (urban/rural). Currently, Algerian cities and urban areas are experiencing an unprecedented waste accumulation crisis. On the other hand, local authorities are unable to find solutions. Despite the efforts of the State in this area in terms of mobilizing resources; Urban waste management at the local level remains very basic and is characterized by amateurism. Primitive management increases the risks of contamination of the components of natural ecosystems and the environment, in this case water and soil.

Content of the subject:

1- **Waste: definitions and concepts of waste**
   - Waste classification.
   - Types of waste:
     - Household and similar waste.
     - Inert waste.
     - Special waste.

2- **Waste collection:**
   - Types of collection:
   - Equipment.
   - Waste sorting.
   - Transport and Travel.

3- **Impacts of waste:**
   - Impacts on the environment.
   - Health impacts.
   - Socioeconomic impacts.

4- **Elimination**: the disposal of waste
   - The problem of fly-tipping.
   - Technical landfill site.

5- **The valuation:**waste treatment:
   - Bioconversion of organic waste: Composting, methanization.
   - Energy recovery: Incineration.
   - Waste recycling: Recovery, Transformation, Reuse.
     - An ecological emergency measure.
     - A promising market, a green economy.

6- **Waste management in Algeria:**
   - The regulatory context of management.
   - The actors
   - The principles of management:

- Precaution/Prevention.
- Awareness and training.
- Polluter pays.
- Extended producer responsibility.

7- The alternative or smart waste management:(global experiences and cooperation). The establishment of a database and spatial information. Projects to optimize waste collection circuits.

Assessment method: Continuous assessment 60% Exam 40%

Bibliographic references

- Adepoju G. Onibokun. Urban Waste Management: Solutions for Africa, Karthala Publishing, Paris and IDRC, Canada, 2001.
- SWEEP-NET: “Country report on solid waste management in Algeria”, Prepared by Y. Kehila in collaboration with L. Gourine. (2010) Online
- Balet JM, Waste Management, Dunord, Paris 2005.
- Damien A., Guide to waste treatment: regulations and choice of processes, L"usine nouvelle, Dunord, Paris 2013.
- Desachy C., waste: awareness of ecological management, Collection General Association of Municipal Hygienists and Technicians, 2001.
- Duval C., Matter plastics And environment : recycling, valuation,biodegradability, eco-design, Dunord, Paris 2004.
- Ngô, Christian Regnt, Alain Bigot, Bernard., Waste and pollution: impact on the environment and health, Dunord, Paris, 2004.

Regulatory texts:

- Law No. 01-19 of December 12, 2001, relating to the management, control and elimination of waste.
- Law No. 03-10 of July 19, 2003, relating to the protection of the environment within the framework of sustainable development.
- Decree No. 02-372 of November 11, 2002, relating to packaging waste.
- Decree No. 02-175 of May 20, 2002, establishing the creation, organization and operation of the National Waste Agency.
- Decree No. 04-199 of July 19, 2004, establishing the terms of creation, organization, operation and financing of the public system for the recovery and recovery of packaging waste

Semester 5	
Teaching unit	EU.Fundamental
Subject 1	Workshop 05: Urban planning instruments in Algeria
Coefficient	5
Credit	10

Teaching objectives

Mastery of urban planning instruments: PDAU and POS

Recommended prior knowledge

-The principles of graphic representation and cartography.
- Computer tools (spreadsheets and drawing software, etc.);
- Notions on spatial practices, the urban environment, etc.
- The principles of graphic representation and cartography.
- Computer tools (spreadsheets and drawing software, etc.);
- Notions on spatial practices, the urban environment, etc.
- Concepts of regulation and legislation.

Content of the subject:

This workshop is structured as follows:
1- Analysis.
2- Quantization and programming.
3- Development.
4- Regulations.
5- Intervention

Assessment method:100% continuous.

Bibliographic references: To be determined by the teaching team.

Semester 5	
Teaching unit	EU. Fundamental
Subject 2	City management
Coefficient	2
Credit	4

Teaching objectives

Students of urban management must absolutely understand the city, its structure, its facilities and its urban services.

Recommended prior knowledge

The student must have acquired a good knowledge of planning and management methods for public services.

Content of the subject:

I- City:

- Definition and history
- Type of cities
- Urban structure and components

II- Urban management

- Definition and history
- Urban land management (urban expansion and nature protection)
- Housing management.
- Management of public facilities
- Management of urban public spaces
- Urban services management
- Problems of city management

II- Urban governance and sustainability:

- Definition and history
- Local urban management

- Auditurban

III- Cities and GIS

Assessment method:40% continuous and 60% in exam.

Bibliographic references: To be determined by the teaching team

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Semester 5	
Teaching unit	EU. Fundamental
Subject 3	Transport and urban mobility
Coefficient	2
Credit	4

Teaching objectives

The objective of this course is to acquire knowledge of the concepts and issues of mobility, as well as an understanding of the coordination and articulation between transport and urbanization.

Recommended prior knowledge

Urban analysis, topography, mathematics.

Content of the material:

1- General information on urban transport

- Definitions.
- Importance of transportation in urban life.
- Transport and urban societies (historical considerations).

2- Urban transport in the city:

- Types of urban transport.
- Modes of urban transport.
- Evolution of the vehicle fleet.
- Urban transport performance.

3- Urban mobility:

- Definition.
- Travel in the city: reason for travel, classification of traffic flows.
- Transformation of urban lifestyles: urban practices, accessibility, urban form.
- Challenges of urban mobility: social, economic and environmental issues.
- Management of mobility and modal choice.

4- Studies relating to urban transport

- Type of studies:
  - Geographical study.
  - Planning study.
  - Technical study.
- Types of surveys:
  - Household survey.
  - Origin Destination Survey.
- Urban traffic: volume and direction.

5- Urban transport management: the legislative and decision-making aspect:

- Transport policy in Algeria: transport and urban policy, regulations, stakeholders, taxation, etc.
- Urban transport management instruments:
  - The transport plan.
  - The traffic plan.

- **Practical cases:**

- Urban traffic exercises:
  - Flows: volume and direction (flow counting, directional flows).
  - Development of intersections.
- Reading transport management instruments:
  - Transport plan, Traffic plan.
  - Analysis of examples.
- Presentations on transport and urban mobility:
  - Transport policy in Algeria.
  - Sustainable mobility and sustainable transport.
  - Analysis of examples.

Assessment method:40% continuous and 40% in exam.

Bibliographic references:

- Cancalon F., Gargaillo L. Urban public transport: which methods for which strategy?, Paris, Ed Celse, 1991,
- Merlin (P.): urban transport. Paris, PUF, 1992.
- Michel Savy: Rail and road: trade or dispute, Presses Ponts et Chaussées, 1997.
- Acher F., Metapolis or the future of cities, Paris, Edition Odile Jacob, 1995.
- Brun J.J., City and Mobility, 2013
- Acher F., The new principles of urban planning, Aube edition, 2008.
- Masbougi A, Bourdin A., Urban planning of lifestyles, City and planning collection, Moniteur Edition, 2004.
- Dupuy G., Territories of the automobile, Paris, Economica 1995.
- Dupuy G., Urban planning of networks: theories and methods, Paris, Armond Collin, 1968.
- Dupuy G., The city differently, Presses of the University of Quebec, 2005.
- Godad F., The City in Motion, Paris, Edition Olivia Barbet-Massin, 1994.
- Kauffmann V., Coordinating transport and urban planning, Paris, Predit, 2003.
-Mangin D., The franchised city: forms and structures of the contemporary city, Paris, Edition de la villete, 2004.
- Gagnon L., Road geometry, Modulo, Canada, 2001.
- Kalli FZ, Road courses: design of road layouts, standards, OPU, Algiers 2012.
- Orfeuil JP, The automobile in question, Paris, Predit, 2000.
- Grillet A., Transport and territorial architecture, research, state of play and perspectives, research edition, Paris, 2003.
- Commission on Accounts and the Economy of the Environment: Mobility, transport and the environment: Report of the Commission on Accounts and the Economy and the Environment, Paris 2006.
- Wiel M., The urban transition or the passage from the pedestrian city to the motorized city, architecture and research Margada 1999.
- Wiel M., Urban sprawl and mobility, Paris 2010.

Semester 05	
Teaching unit	EU. Methodology
Matter	City and renewable energies
Coefficient	2
Credit	4

Teaching objectives

Acquire basic knowledge on renewable energies and their integration into the city

Recommended prior knowledge

Mastering renewable energy in the city.

Content of the subject:

The aim of the city and renewable energy subject is to provide the necessary knowledge to build a city that produces as much energy as it consumes, while promoting the local and national economy.

1- Introduction to renewable energy

- solar energy (solar field and climate data)
- wind energy
- geothermal energy.
- biomass energy.
- hydraulic energy

2- renewable energy and the city

- the city and fossil energy and the challenge of climate change
- the energy transition policy (the city in energy transition)
- energy mix in the city
- the smart city (the solutions implemented)

Assessment method:40% continuous and 40% in exam.

Bibliographic references:

- Jacques Vernier, "Renewable Energies", University Press of France, 2009
- Coord Eva Boxenbaum, Brice Laurent, Annalivia Lacoste, "new energies for the city of the future", presses des mines Paris, 2013

Semester 05	
Teaching unit	EU. Methodology
Subject 2	Geographic Information System (GIS 2)
Coefficient	2
Credit	4

Teaching objectives

Urban management and planning are important issues for a country concerned with sustainable development. The organizations in charge of these missions continue to face problems related to the increasing volume of data to be managed, business processes that often seem slow and uncoordinated, inconsistency, especially with regard to geographic data, difficulties in sharing and simultaneous access to data, time losses sometimes due to manual processing, archiving and scaling, etc. The use of GIS should constitute a considerable gain in terms of time. Urban management is a complex process that requires a substantial information base and a great deal of coordination between the different actors in the urban space.

Recommended prior knowledge

The student has acquired a solid foundation in cartography and use of ARCGIS software

Content of the subject:

1. Introduction of BDUs to urban GIS

- The experiences of urban databases (UDBs)
- Dissemination of GIS in urban environments.
- Current developments in GIS in urban environments

2. GIS in urban planning and management

- Implementation of GIS in urban environments
- The creation of management and intervention maps as well as risk maps.

Assessment method:100% continuous

Bibliographic references:

- Bordin P., 2002, GIS, concepts, tools and data, Paris, Hermès.
- Denegre J. et al. 2004, Geographic Information Systems, Paris, PUF, Que Sais-je n° 3122.
- Lambert N., Zanin C., 2016, Cartography manual, principles, methods, applications, Paris, A. Colin.
- PIVOT F (2004) the geographical representation of urban images photographic documents of architectural forms. Master's thesis, National School of Engineers of Saint-Etienne.

.Semester 05	
Teaching unit	EU. Methodology
Subject 3	Public markets
Coefficient	1
Credit	1

Teaching objectives

The main objective is to make students understand the concepts and content of public procurement according to Algerian legislation.

Recommended prior knowledge

Urban economics, urban legislation, urban planning.

Content of the subject:

1-The partners:
- the project owner
- the project manager
- the entrepreneur
- other stakeholders (subcontractors)

2- **Purpose and price of the markets:**
- market categories
- the unit price schedules

3- Selection procedures:
- advertising rules
- selection modes

4- Special forms of walking:

5- Contractual documents:
- the constituent parts
- subsequent documents (amendments, etc.)
- the order of service

6- The guarantees:
- The deposit
- The retention money
- The terms of restitution or release

7- Payment terms:
- Determination of quantities
- The monthly statement. Payments in advance and installments
- The final count and the general count

8- Changes in progress:

- Price update
- Variation in mass
- Change in the importance of the various types of works

9- Deadline and receipt:

- Deadline for execution, penalties and bonuses
- Acceptance of works
- Warranty period

10- Termination:

- The different cases of termination.

Assessment method:100% review.

Bibliographic references: To be determined by the teaching team

Semester 05	
Teaching unit	EU. Discovery
Subject 1	Ethics and professional conduct
Coefficient	1
Credit	1

Teaching objectives

Help the student to become familiar with all the principles and rulesethics who manage and guide all activities and determine thehomework required by professionals in the performance of their activity. This involves informing and raising awareness among students of the risk of corruption and encouraging them to contribute to the fight against it.

Recommended prior knowledge
Urban legislation and regulations

Content of the subject:

A- Ethics
1- Definitions
2- Rules
3- Professional conduct
4- Examples of code of ethics
5- Protection of personal data and new information and communication technologies
6- Professions in light of ethics and societal issues

B- Corruption
1- Definitions
2- Types of corruption
3- Manifestations of administrative and financial corruption
4- the reasons for administrative and financial corruption
5- The effects of administrative and financial corruption
6- The fight against corruption by local and international bodies and organizations
7- Methods of treatment and means of combating the phenomenon of corruption
8- Models of the experience of certain countries in the fight against corruption

Assessment method:100% review.

Bibliographic references: To be determined by the teaching team.

Semester 05	
Teaching unit	EU. Transversal
Subject 1	Green space management
Coefficient	2
Credit	2

Teaching objectives

The student will be able to understand the important role of green spaces in the city and the ways of designing and managing them.

Recommended prior knowledge

Have fully assimilated the module on town planning law, the environment and urban development.

Content of the subject:

1. **General introduction**
   - History of green spaces
   - Role of green spaces (in general and particularly in the city)
2. **Types of green spaces**
   - Classification by site
   - Classification according to use and user
3. **Design of green spaces**
   - Factors influencing the design of green spaces
   - Design modes
   - Regular design
   - Natural design
   - The common design
   - Contemporary design
   - Elements of design and organization of green spaces
   - The basics of designing and planning green spaces
   - Color organization
   - Principles of landscape design
4. **Planting standards and measures in the city**
   -Determination of use
   - Knowledge of the environmental environment
5. **The stages of planting in cities**
6. **The nurseries**
   - Definition of nursery
   - The objective of the nurseries
   - The different types of nurseries
   - General conditions for planting nurseries
7. **Management and maintenance of green spaces**
   - Management (the role of the different actors: management, investors, governance, citizens)
   - GIS and the management of the city's green spaces.

- Urban improvement in Algeria
- The interview (the role of the different participants)

8- The green network in the city

9. Eco-districts

Assessment method:40% continuous and 40% in exam.

Bibliographic references:

- National Agency for the Conservation of Nature, Regulations on green spaces,
- Algiers, 1994.
- Bataillon Agnés et al, Gardens in the suburbs, gardens in the making of the territory in Val-de-
- Marne, Val-de-Marne architecture, urban planning and environment council, Créaphis editions,
- 2003.
- Bigot Denis, Development of landscaped spaces, Le Moniteur editions, 2016.
- Boutefeu E, The social demand for nature in the city, survey of residents of the agglomeration
- Lyonnaise, Center for studies on networks, transport, urban planning and public construction
- (CERTU), 2005.
- Interministerial circular of October 31, 1984 on green spaces, Algeria.
- Daures JF, Plant Architecture, Eyrolles editions, 2011.
- Larcher JL and Gelgon T, Development and maintenance of plant surfaces, Lavoisier editions
- Tec et Doc, 2nd edition, Paris, 2005.
- Merlin P and Choay F, Dictionary of urban planning and development, PUF editions, 2000.

Semester 6	
Teaching unit	EU. Fundamental 6
Matter	Workshop 06: Professional project workshop
Coefficient	7
Credit	14

Teaching objectives

Place the student in a situation of responding to a territorial order by using the theoretical and practical knowledge acquired during the Bachelor's degree course, but also, develop a spirit of analysis, synthesis and group work and communication with the sponsoring partners.
The aim of this subject is to encourage the group of students to outline their personal professional projects (highlight their idea) and to get them to model them, targeting the degree of fruition. In short; it is about encouraging them to take action and realize their personal projects in pre-professional workshops.

Recommended prior knowledge
Urban techniques, urban project, PPGE;

Content of the subject:

Preparation of an End of Studies Project in tutoring mode within the framework of pre-professionalization workshops.
The tutoring project allows students to work within a professional context based on an assignment proposed by a course instructor or an external organization. Students work in groups and position themselves on a topic based on the list of proposals collected by the EU leader. The topics can be very different (work around BIM, cartography and GIS, development project and design of a space, research report, etc.)
The project will focus on one of the following situations:

- the development of a development, design and calculation project (integrating VRD), in the case of an urban space,
- the study of a concrete urban problem, in the case of a developed or built site. The example of a regulatory and operational urban planning operation (urban improvement, rehabilitation, restructuring, etc.), emphasizing the study, in this case on urban networks and techniques.

Pre-professionalization workshopsare a form of professional learning aimed at finding solutions to applied problems. The analysis emphasizes the role of real orders from local authorities.

The interaction between students and sponsors is very important in the development of professional projects.

The pre-professionalization workshop must enable students to understand the practices of commissioned redevelopments:

- A work that focuses on technical and social practices.
- Orders that express political will in response to real needs.
- Knowledge to be acquired by laying the training in seven stages:

Step 1

- Understanding the territory and defining the issue of local development,
- Understanding the order of local authorities and reformulating the question as a problem,
- Search for existing or reference spatial models.

Step 2

- Spatial analysis from existing statistical and thematic graphic documents)
- Creation of a dynamic territorial structure with exhaustive use of existing cartographic or statistical documents (maps)
- Create a simplified presentation of the main structures in the territory
- Represent the main dynamics of the territory (infrastructure and economic sectors, cities and demographics) agriculture, demography, etc.)

Step 3

- Spatial analysis using the image, landscape elements and regulatory documents, in this case the Planning and Urban Development instruments (POS and PDAU), master plans, sector plans and diagrams (SNAT)
- Schematization of interventions by translating spatial information.

Step 4

- Surveys and analysis of required data,
- Integrate the points of view of the actors and their visions of the territory (drawing),
- Issue the issues they identify for the territory (drawing),
- Consult with them the projects they have for the territory (drawing),
- Interpret information into spatial diagrams and project sketches.

Step 5

- Compare and contrast spatial analyses to identify the main issues in the territory,
- Identify the places of divergence and convergence of points of view,
- Simplify the different logics of territorial organization.

Step 6

- Develop evolution scenarios
- Extract the important elements, carrying contrasting territorial dynamics.
- Translate these elements of dynamics into “caricatured” scenarios.

Step 7

- Restore the diagnosis,
- Present the different visions of the territory carried by the actors and the scenarios,
- Discuss the different spatial representations to prioritize the issues with the stakeholders,
- Research forms of local territorial planning action that respond to these challenges.

Assessment method:100% continuous control.
Validation is to be carried out on the basis of continuous assessment and the presentation of a final project (graphic and written report).

Bibliographic references: To be defined by the teaching team

Semester 06	
Teaching unit	EU. Fundamental
Subject 2	Major risks in urban environments
Coefficient	2
Credit	4

Teaching objectives

The objective of teaching this subject is to help students understand the origins of the risks that severely impact cities and urban environments. Populations, infrastructure, and economic components present themselves as precarious issues in the face of the potential danger posed by these risks. Industrial facilities or classified activities forge close relationships with the urban population, creating important economic and social relationships.

I- Definitions of risks and urban risks:
II- Natural risks:
1- The internal dynamics of the earth or geophysical forces: 1.1- Earthquakes
1.2- THE volcanic eruptions
1.3- Floods
2- External dynamics of the surface and gravity: 2.1- landslides
2.2- Avalanches 3- Fire outbreaks
III- Industrial and technological risks linked to classified installations (factories, plants, flammable material depots) and certain equipment
IV- Risk prevention plan (the (PPR: PPRN, PPRI, PPRT),
V- Means of combating risks
VI- Regulatory framework for the management of major risks in urban environments
VII- Environmental protection laws,
VIII- Laws relating to industrial activities and classified installations,
IX- Compensation laws

Assessment method:40% continuous monitoring and 60% monitoring during examination.

Bibliographic references: To be defined by the subject teachers,

Semester 06	
Teaching unit	EU. Methodology
Subject 1	Internship in a professional environment
Coefficient	4
Credit	9

Teaching objectives

Work placement with mandatory learning input lasting 4 weeks. An internship report is required for final defenses. The apprenticeship also requires the writing and presentation of a learning report. Students are supported throughout the year in their search for an internship, and upon admission in their search for an apprenticeship contract. An address and contact book is made available, containing a list of internships and contracts from previous classes. Offers are sent to the class throughout the year.

Recommended prior knowledge

Project Management, Urban Marketing, Professional Project and Business Management

Content of the subject:

- Integration into a professional framework
- Communication techniques with the host organization
- Presentation of the work plan
- The professional project during the internship
- Writing the internship report
- The results of the work placement.

Assessment method:continuous monitoring of internship report.

Bibliographic references: To be defined by the subject teachers,

Semester 06	
Teaching unit	EU. Discovery
Subject 1	PPGE: Professional project and business management
Coefficient	2
Credit	2

Teaching objectives:

Prepare and master the methodological tools necessary for professional integration at the end of studies, prepare for the job search. Be made aware of entrepreneurship by presenting an overview of management knowledge useful for creating activities and being able to implement a project.

Content of the subject:

Chapter 1: Business and Society

The company: Definition and objectives of the company, different forms of business, company structure, personnel and partners of the company.
Different types of businesses (VSEs, SMEs, SMIs, ETIs, GEs).
The company: Definition and objectives of the company
Different types of business (SARL, EURL, SPA, SNC).
Difference between business and corporation.

Chapter 2: Operation and organization of the company

Method of organization and operation of the company.
The main functions of the company (production company, service company, etc.).
Structure of the company (definition and characteristics).
Different types of structures (functional, divisional, multidivisional, hierarchical-functional "staff and line" structure).
Additional activities of the company (partnership, subcontracting, etc.).

Chapter 3: How to get into a business.

The needs and quality instaff (executives) superiors, managers, technicians, workers, etc.).
Where to find the job offer (ANEM, section, internet, etc.).
How to go about it (the application, the CV).
The different types of job interviews and how to go about one. Types of employment contracts (permanent and fixed-term).
Salary (how a pay slip is calculated).

Chapter 4: How to Start Your Own Business

The journey of a business creator (the idea, the capital, financial aid, etc.). How to find a good idea
Financial aid schemes for investment (ANSEJ, CNAC, ANDI, ANGEM, PNR).

Chapter 5: Study of a business creation project.

The study of a business creation project requires the promoter to make the effort to plan and write in detail the phases and steps that he will have to take to get his business off the ground.

Market research(sales department, marketing, etc.).

Technical study(location, equipment and machinery requirements, production capacity, etc.).

Financial study(turnover, salary costs, expenses and consumption, taxes, etc.).

Assessment method:100% review

Bibliographic references:

- Antoine Melo, Business Management, Melo France edition 2016.
- Thomas Durand, Business Management, Bronché edition 2016.
- Philippe Guillermic, Business Management Step by Step, Pocket Edition 2015.
- Guy Raimbaut, Management Tools, Chihab Algiers edition 1994.
- Institute of Financial Technology, Accounting Introduction, OPU Algiers 1993.
- Christian Bultez, Guide and instructions for the procedures, Nathan Paris edition 1993.

Semester 06	
Teaching unit	EU. Transversal
Matter	Writing an internship report
Coefficient	1
Credit	1

Teaching objectives

Writing an internship report will allow the student to highlight the theoretical and practical knowledge acquired during their Bachelor's degree and during the internship period. This writing is also an opportunity to demonstrate the candidate's analytical, synthesis and personal work skills within the framework of the company internship and the candidate's ability to give a presentation speech as part of the oral defense.

Recommended prior knowledge

- Knowledge of urban techniques, urban projects,
- Mastery of urban analysis and the principles of urban projection,

Content of the subject:

The writing process

Writing a technical report involves implementing an approach that goes far beyond the simple exercise of writing. First and foremost, it is necessary to determine the parameters of the document to be produced and clearly define the stages of its production. To do this, the writer must return to the analysis of the client (sponsor): it is the research and analysis work previously carried out that will provide the basic information for writing the document, namely:

- Data collection:
- Structuring information is the art of grouping and hierarchizing it.
- Data structuring.
- Presentation of the thesis:

Writing a technical report involves the art of informing, the art of analyzing (and explaining), and the art of convincing. Respectively, they enable their recipients to know, understand, and act. These three actions are logically linked, because one can only recommend actions if one has first analyzed the situation, and one can only analyze it if one has first become aware of the facts. There are different types of reports: those that are limited to describing are called "information reports."

Structure of the thesis

- Texting
- Physical presentation
- Dissertation presentation standards
- Oral defense

Writing an internship or project report

The production of a written report of a certain length is an exercise raising two types of difficulties:

- Decide on the content and structure: “the substance”.
- Present in a coherent and pleasant manner: “the form”.

The dissertation presents a summary of the student's activity during the internship or project. It must highlight the problems encountered, the approach followed and the results obtained. It is a document of a scientific and technical nature.

The dissertation must highlight the student's personal contribution and, where applicable, the way in which he or she integrated into a team.

The thesis must:

- Identify the student's personal contribution
- Select relevant information
- Specify the stated objectives
- Show logical progression in structure, chronological writing
- Contain a summary and a conclusion.

The oral defense takes place according to the following rules:

Presentation of the thesis limited in time to 20 minutes and structured around the following four points: context of production (which amounts to evoking the request and the difficulties of production which result from it), problem, methodology and main results.

Assessment method:100% continuous with assessment of a final year dissertation.

Bibliographic references: To be determined by the teaching team.

IV- AGREEMENT AND CONVENTIONS

REPUBLIQUE ALGERIENNE DEMOCRATIQUE ET POPULAIRE
الجمهورية الجزائرية الديمقراطية الشعبية
Ministère de l'enseignement supérieur et de la recherche scientifique
وزارة التعليم العالي والبحث العلمي
Université Mohamed Seddik BENYAHIA.JIJEL
جامعة محمد الصديق بن يحي، جيجل

CONVENTION GENERALE DE COOPERATION SCIENTIFIQUE TECHNIQUE ET DE FORMATION

Entre

Le Département d'Architecture de la Faculté des Sciences et de la Technologie de l'université Mohamed Seddik Ben Yahia de Jijel

Et

Etablissement Public de Wilaya de Gestion des Centres d'Enfouissement Technique - Jijel (EPWG CET)

PREAMBULE

• Considérant la mise en place de la réforme des enseignements du supérieur (régime "Licence-Master-Doctorat") ;
• Considérant la mission de formation pédagogique (Licence et master) dévolue au département d'architecture de la faculté des Sciences et de la Technologie de l'université Mohamed Seddik Ben Yahia de Jijel ;
• Considérant le projet de lancement d'une formation de licence intitulée : **Licence Professionnelle en Gestion des Techniques Urbaines (GTU) ;**
• Considérant les missions de recherche approfondie et de formation dévolues aux différents laboratoires de recherche nationaux du département d'architecture, de la faculté des sciences de l'ingénieur et de l'université Mohamed Seddik Ben Yahia de Jijel (CBE Cadre Bati et Environnement et autres .....) ;
• Considérant le secteur de production et les processus technologiques en vigueur au sein de l'entreprise ;
• Considérant la nécessité de créer et de développer des relations intersectorielles « Université - Industrie - Entreprise – Municipalité » ;

D'une part

Le Département d'Architecture de la Faculté des Sciences et de la Technologie de l'université Mohamed Seddik Ben Yahia de Jijel, désignée dans ce qui suit par le **département d'architecture.**

Sis à BP 98, Ouled Aïssa, Jijel 18000.
Représenté par Le recteur de l'université : **Pr. AMIRECHE Hamza**

Et d'autre part,

Etablissement Public de Wilaya de Gestion des Centres d'Enfouissement Technique - Jijel (EPWG CET) désigné dans ce qui suit par **(EPWG CET-JIJEL)** ; sis a la cite administratif troisième étage 18000 Jijel;
Représenté par : **Mr.BOUREFIS Tarik**

Décident de la matérialisation d'une coopération par la signature de la présente convention

Article 01 → Objet

Le présent article a pour objectif de définir un cadre de coopération et d'échange entre **l'EPWG-CET-JIJEL** et **Le Département d'Architecture** Les deux partenaires décident de tout mettre en œuvre pour favoriser le développement d'échanges scientifique, technique, de formation, d'assistance mutuelle et d'autres dans la limite de leurs missions, objectifs, programmes et moyens respectifs conformément a la législation qui leur est applicable

Article 02 → Contenu

Les échanges et la coopération entre les deux établissements peuvent revêtir les formes citées dans alinéas suivants :

- L'exécution par le département d'architecture des travaux d'expertises et de recherches appliquées dans le domaine de l'architecture, l'urbanisme et les métiers de la ville ;
- Le recyclage, la mise à niveau (éventuellement : la formation) et la spécialisation des personnels technique de **l'EPWG-CET-JIJEL** Par le corps d'enseignants chercheurs du département d'architecture ;
- La participation de **l'EPWG-CET-JIJEL** dans le cursus universitaire des étudiants :
  - ✓ En cours et en fin de cycle de Licence et Master
  - ✓ En Doctorat

Cette Participation s'entend :

- ✓ En termes d'accueil d'encadrement technique des stages pratiques au niveau de l'entreprise (objet d'une convention particulière et individualisée : voir annexes) ;
- ✓ Et en termes de participation aux taches pédagogiques (support humain à la tache d'enseignement en travaux dirigés et ou en pratiques) ;

- La formation et le conseil informatique ingénierie La participation de **l'EPWG-CET-JIJEL** dans l'organisation et ou le sponsoring (éventuellement) de manifestations scientifiques organisées par **Le Département d'Architecture ;**
- Toute forme de coopération proposée par une partie, acceptée par l'autre partie et qui ferra l'objet d'un addendum a la présente convention ;

Article 03 → Conditions De Mise En Œuvre

Chaque projet fera l'objet d'un contrat entre : **"Département d'Architecture." Et l'EPWG-CET-JIJEL** Le contrat a pour but de déterminer l'objectif visé, le programme des travaux, les droits et obligations des parties, ainsi que l'évaluation globale et l'apport de chaque partie.

Les deux parties conviennent de mettre en place dans les quinze (15) jours qui suivent la signature du présent contrat de coopération, un comité de quatre (4) membres, chargé de :

- ✓ Définir les axes et thèmes de coopération ;
- ✓ Soumettre les contrats des projets au Président Directeur Général de **l'EPWG-CET-JIJEL** et au Recteur du **l'université Mohamed Seddik Ben Yahia de Jijel ;**

✓ Assurer le suivi et la coordination des projets ;

✓ Evaluer les résultats des projets et de la coopération ;

✓ Créer des groupes de travail, dont La présidence sera assurée annuellement à tour de rôle. Il se réunit deux (2) fois par an dans un lieu agrée par les deux parties. Chacune des deux parties désignera ses représentants, par lettre, dans un délai de quinze (15) jours après la signature du contrat. La lettre de désignation sera annexée au contrat. Pour tout échange d'information ou de documentation, la partie qui en ressent le besoin doit exprimer par demande écrite à l'autre partie qui se charge de prendre les dispositions utiles pour la satisfaire. Toute prestation de service effectuée par un spécialiste de l'une des deux parties au bénéfice exclusif de l'autre partie fera l'objet d'un contrat fixant les modalités pratiques de sa réalisation.

Article 04 →
Obligation Des Parties

- " Le Département d'Architecture." assure :

✓ L'encadrement scientifique de ses stagiaires,

✓ La contribution à la mise à niveau (enseignements théoriques et pratiques en vue de l'actualisation des connaissances) des personnels de "l'entreprise",

✓ L'inscription des ingénieurs de "l'entreprise" en post graduation (PG) ou post-graduation spécialisée (PGS) conformément à la réglementation ;

✓ La restitution a "l'EPWG-CET-JIJEL ", dans l'état — tel que reçu -, de la totalité des documents, y compris les données brutes obtenues au cours des analyses de laboratoires ainsi que des interprétations.

✓ Le dépôt auprès du service de la documentation de "l'entreprise" de deux exemplaires du rapport final de l'étude et de la thèse clôturant le projet.

✓ L'engagement de publier les dits documents dans les revues et les bulletins édités par les deux parties.

✓ L'accès au fond documentaire de la bibliothèque du" Département d'Architecture." Aux personnels techniques de l'EPWG-CET-JIJEL

✓ "Le Département d'Architecture." Est de même, disposée à assurer une "formation à la carte" : diplôme de Licence Professionnelle ou de Master professionnel dans les spécialités et filières de son domaine de formation.

- " l'EPWG-CET-JIJEL " assure :

✓ La documentation et les informations disponibles relatives à la réalisation de tout projet,

✓ Le soutien, la prise en charge des étudiants lors des visites pédagogiques, les stages de fin d'études et autres missions du "Département d'Architecture." En entreprise, dans la mesure des moyens disponibles.

✓ Le soutien, par son personnel qualifié, à la mission pédagogique du "Département d'Architecture." (Support

humain à la tache d'enseignement pratique).

Article 05 → Confidentialité

" Le Département d'Architecture" et tous les personnels concernés : chercheurs engagés dans un programme de cet accord) sont strictement tenus au respect du secret professionnel et à la confidentialité des travaux. Ils s'engagent à ne transférer, céder ou communiquer à aucun tiers, tout document, rapport, données ou toute information transmise par "l'entreprise" ou acquise dans le cadre du programme en question.
L'engagement des chercheurs est individuel et écrit.
La publication ou communication de l'étude partiellement ou totalement sous quelques formes que ce soit, est strictement interdite sans l'accord préalable des deux parties.

Article 06 → Propriété Intellectuelle

Les résultats des travaux réalisés en commun demeurent la propriété exclusive de "l'Entreprise". L'ensemble des résultats et des documents y afférent jusqu'au stade d'arrêt du projet sont propriété unique de "**l'EPWG-CET-JIJEL** ", hormis ceux mis à disposition par chacune des parties.
Dans l'exécution du présent accord, les deux parties veilleront au strict respect des dispositions réglementaires en vigueur en matière de propriété industrielle, de protection et de diffusion de l'information.

Article 07 → Responsabilité

Chacune des parties conserve à sa propre charge dans les conditions de droits communs, les conséquences intégrales de la responsabilité civile ainsi que celle de ses chercheurs préposés ou représentants pour tout dommage causé à des tiers du fait de son activité au titre du présent accord. Chaque partie prend en charge l'assurance de ses chercheurs.
Dans le cas où un ou plusieurs projets de coopération ne se concrétise (... ent) pas, aucune partie ne pourra réclamer à l'autre un quelconque dédommagement, intérêt ou droit à quelque titre que ce soit.

Article 08 → Règlement Des Différends

Tout différend survenant à l'occasion de l'interprétation ou de l'exécution du présent accord sera réglé, en priorité, à l'amiable.
Le cas échéant, il sera fait appel au tribunal territorialement compétent.

Article 09 → Résiliation De L'accord Cadre

En cas de manœuvre dilatoire d'une des deux parties, une mise en demeure, avec accusé de réception sera transmise à la partie défaillante, d'avoir à prendre les mesures requises pour pallier à la situation.
Le cas échéant, la résiliation sera notifiée par lettre recommandée avec accusé de réception, 30 jours après la mise en demeure.

Article 10 → Force Majeure

Aucune partie ne saurait être responsable de l'inexécution partielle ou totale de ses engagements en cas de force majeure, laquelle est entendue comme tout événement externe aux parties insurmontable et imprévisible.

	La partie la subissant est tenue d'en avertir l'autre partie après sa survenance. Les délais de réalisation seront prorogés en conséquence.
Article 11 → Modification	Toute modification aux termes du présent accord sera conjointement décidé. La partie qui en prend l'initiative, avertira par écrit l'autre partie.
Article 12 → Durée Du Contrat	Le présent contrat est conclu pour une durée de trois (03) années. Il peut être prorogé pour une égale durée, par avenant. La partie intéressée doit saisir par écrit l'autre partie, trois (03) mois avant l'échéance initiale.

Fait à Jijel,
Le : 17 FEV. 2020
Mr.BOUREFIS Tarik
Le Directeur de l'EPWG-CET-JIJEL

Fait à Jijel,
Le : 24 MARS 2020
Pr. AMIRECHEHamza
Le recteur de l'université

REPUBLIQUE ALGERIENNE DEMOCRATIQUE ET POPULAIRE

الجمهورية الجزائرية الديمقراطية الشعبية

Ministère de l'enseignement supérieur et de la recherche scientifique

وزارة التعليم العالي والبحث العلمي

Université Mohamed Seddik BENYAHIA JIJEL

جامعة محمد الصديق بن يحي، جيجل

CONVENTION GENERALE DE COOPERATION SCIENTIFIQUE TECHNIQUE ET DE FORMATION

Entre

Le Département d'Architecture de la Faculté des Sciences et de la Technologie de l'université Mohamed Seddik Ben Yahia Jijel

Et

L'URBACO -Agence -JJEL-

(Centre d'Etude et de Réalisation en Urbanisme Constantine)

Agence-Jijel-

0/6

PREAMBULE

- Considérant la mise en place de la réforme des enseignements du supérieur (régime "Licence-Master-Doctorat")
- Considérant la mission de formation pédagogique (Licence et master) dévolue au département d'architecture de la faculté des Sciences et de la Technologie de l'université Mohamed Seddik Ben Yahia de Jijel.
- Considérant le projet de lancement d'une formation de licence intitulée : Licence Professionnelle en Gestion des Techniques Urbaines (GTU)
- Considérant les missions de recherche approfondie et de formation dévolues aux différents laboratoires de recherche nationaux du département d'architecture, de la faculté des sciences de l'ingénieur et de l'université Mohamed Seddik Ben Yahia de Jijel (CBE Cadre Bati et Environnement et autres ……) ;
- Considérant le secteur de production et les processus technologiques en vigueur au sein de l'entreprise
- Considérant la nécessité de créer et de développer des relations intersectorielles "Université - Industrie" ;

D'une part

Le Département d'Architecture de la Faculté des Sciences et de la Technologie de l'université Mohamed Seddik Ben Yahia jijel, dans ce qui suit par le **département d'architecture.**

Sis à BP 98, Ouled Aïssa, Jijel 18000.
Représenté par Le recteur de l'université : **Pr. AMIRECHE Hamza**

Et d'autre part,

Le Centre d'Etude et de Réalisation en Urbanisme Constantine Antenne de Jijel désignée dans ce qui suit par **(URBACO-JIJEL)**

; sise au lotissement Fergani-Jijel ; Hay Mustapha,BP29.18000,Jijel.
Représentée par le chef d'agence : **Mr.MADENE Abdelmalek**

Décident de la matérialisation d'une coopération par la signature de la présente convention

Article 01 → Objet

Le présent article a pour objectif de définir un cadre de coopération et d'échange entre **l'URBACO-JIJEL et Le Département d'Architecture** Les deux partenaires décident de tout mettre en œuvre pour favoriser le développement d'échanges scientifique, technique, de formation, d'assistance mutuelle et d'autres dans la limite de leurs missions, objectifs, programmes et moyens respectifs conformément a la législation qui leur est applicable

Article 02 → Contenu

Les échanges et la coopération entre les deux établissements peuvent revêtir les formes citées dans alinéas suivants :

- L'exécution par le département d'architecture des travaux d'expertises et de recherches appliquées dans le domaine de l'architecture, l'urbanisme et les métiers de la ville.
- Le recyclage, la mise à niveau (éventuellement : la formation) et la spécialisation des personnels technique de **l'URBACO-Agence-JIJEL** Par le corps d'enseignants chercheurs du département d'architecture
- La participation de **l'URBACO-Agence-JIJEL** dans le cursus universitaire des étudiants :
  - ✓ En cours ou en fin de cycle de licence et master
  - ✓ En Doctorat

Cette Participation s'entend :

- ✓ En termes d'accueil d'encadrement technique des stages pratiques au niveau de l'entreprise (objet d'une convention particulière et individualisée : voir annexes)
- ✓ Et en termes de participation aux taches pédagogiques (support humain a la tache d'enseignement en travaux dirigés et ou en pratiques).

- La formation et le conseil informatique ingénierie La participation de **l'URBACO-Agence-JIJEL** dans l'organisation et ou le sponsoring (éventuellement) de manifestations scientifiques organisées par **Le Département d'Architecture.**
- Toute forme de coopération proposée par une partie, acceptée par l'autre partie et qui ferra l'objet d'un addendum a la présente convention

Article 03 → Conditions De Mise En Œuvre

Chaque projet fera l'objet d'un contrat entre : **"Département d'Architecture.". Et l'URBACO- Agence-JIJEL** Le contrat a pour but de déterminer l'objectif visé, le programme des travaux, les droits et obligations des parties, ainsi que l'évaluation globale et l'apport de chaque partie.

Les deux parties conviennent de mettre en place dans les quinze (15) jours qui suivent la signature du présent contrat de coopération, un comité de quatre (4) membres, chargé de :

- ✓ Définir les axes et thèmes de coopération.
- ✓ Soumettre les contrats des projets au Président Directeur Général de " **l'URBACO- Agence-JIJEL** " et au Recteur du **"Département d'Architecture."**
- ✓ Assurer le suivi et la coordination des projets.
- ✓ Evaluer les résultats des projets et de la coopération.

✓ Créer des groupes de travail. La présidence sera assurée annuellement à tour de rôle. Il se réunit deux (2) fois par an dans un lieu agrée par les deux parties. Chacune des deux parties désignera ses représentants, par lettre, dans un délai de quinze (15) jours après la signature du contrat. La lettre de désignation sera annexée au contrat. Pour tout échange d'information ou de documentation, la partie qui en ressent le besoin doit exprimer par demande écrite à l'autre partie qui se charge de prendre les dispositions utiles pour la satisfaire. Toute prestation de service effectuée par un spécialiste de l'une des deux parties au bénéfice exclusif de l'autre partie fera l'objet d'un contrat fixant les modalités pratiques de sa réalisation.

Article 04 →
Obligation Des Parties

- **" Le Département d'Architecture."** assure :

✓ L'encadrement scientifique de ses stagiaires,

✓ La contribution à la mise à niveau (enseignements théoriques et pratiques en vue de l'actualisation des connaissances) des personnels de "l'entreprise",

✓ L'inscription des ingénieurs de "l'entreprise" en post graduation (PG) ou post-graduation spécialisée (PGS) conformément à la réglementation.

✓ La restitution à **" l'URBACO- Agence-JIJEL "**, dans l'état — tel que reçu -, de la totalité des documents, y compris les données brutes obtenues au cours des analyses de laboratoires ainsi que des interprétations.

✓ Le dépôt auprès du service de la documentation de "l'entreprise" de deux exemplaires du rapport final de l'étude et de la thèse clôturant le projet.

✓ L'engagement de publier les dits documents dans les revues et les bulletins édités par les deux parties.

✓ L'accès au fond documentaire de bibliothèque du" **Département d'Architecture.**" Aux personnels techniques de **" l'URBACO- Agence-JIJEL "**.

✓ **"Le Département d'Architecture."** Est de même, disposée à assurer une "formation à la carte" : diplôme de Licence Professionnelle ou de Master professionnel dans les spécialités et filières de son domaine de formation.

- **" l'URBACO- Agence-JIJEL "** assure :

✓ La documentation et les informations disponibles relatives à la réalisation de tout projet,

✓ Le soutien, la prise en charge des visites pédagogiques, les stages de fin d'études et autres missions du **"Département d'Architecture."** en entreprise, dans la mesure des moyens disponibles.

✓ Le soutien, par son personnel qualifié, à la mission pédagogique du **"Département d'Architecture."** (Support humain à la tache d'enseignement pratique).

Article 05 →
Confidentialité

" Le Département d'Architecture de la Faculté des Sciences et de la Technologie de l'université Mohamed Seddik Ben Yahia jijel." (et tous les personnels concernés : chercheurs engagés dans un programme de cet accord) sont strictement tenus au respect du secret professionnel et à la confidentialité des travaux. Ils s'engagent à ne transférer, céder ou communiquer à aucun fiers, tout document, rapport, données ou toute information transmise par "l'entreprise" ou acquise dans le cadre du programme en question.
L'engagement des chercheurs est individuel et écrit.
La publication ou communication de l'étude partiellement ou totalement sous quelques formes que ce soit, est strictement interdite sans l'accord préalable des deux parties.
Le cas échéant, le(s) contrevenant(s) sera (seront) poursuivi(s) en justice. En cas de désaccord, **" l'URBACO- Agence-JIJEL "** se réserve le droit d'exiger avant toute publication le retrait des données de l'étude qu'elle jugera confidentielles.

Article 06 →
Propriété Intellectuelle

Les résultats des travaux réalisés en commun demeurent la propriété exclusive de "l'Entreprise". L'ensemble des résultats et des documents y afférent jusqu'au stade d'arrêt du projet sont propriété unique de **" l'URBACO- Agence-JIJEL ",** hormis ceux mis à disposition par chacune des parties.
Dans l'exécution du présent accord, les deux parties veilleront au strict respect des dispositions réglementaires en vigueur en matière de propriété industrielle, de protection et de diffusion de l'information.

Article 07 →
Responsabilité

Chacune des parties conserve à sa propre charge dans les conditions de droits communs, les conséquences intégrales de la responsabilité civile ainsi que celle de ses chercheurs préposés ou représentants pour tout dommage causé à des tiers du fait de son activité au titre du présent accord. Chaque partie prend en charge l'assurance de ses chercheurs.
Dans le cas où un ou plusieurs projets de coopération ne se concrétise (... ent) pas, aucune partie ne pourra réclamer à l'autre un quelconque dédommagement, intérêt ou droit à quelque titre que ce soit.

Article 08 →
Règlement Des Différends

Tout différend survenant A l'occasion de. L'interprétation ou de l'exécution du présent accord sera réglé, en priorité, A l'amiable.
Le cas échéant, il sera fait appel au tribunal territorialement compétent.

Article 09 →
Résiliation De L'accord Cadre

En cas de manœuvre dilatoire d'une des deux parties, une mise en demeure, avec accusé de réception sera transmise à la partie défaillante, d'avoir à prendre les mesures requises pour pallier à la situation.
Le cas échéant, la résiliation sera notifiée par lettre recommandée avec accusé de réception, 30 jours après la mise en demeure.

Article 10 → **Force Majeure**	Aucune partie ne saurait être responsable de l'inexécution partielle ou totale de ses engagements en cas de force majeure, laquelle est entendue comme tout événement externe aux parties insurmontable et imprévisible. La partie la subissant est tenue d'en avertir l'autre partie après sa survenance. Les délais de réalisation seront prorogés en conséquence.
Article 11 → **Modification**	Toute modification aux termes du présent accord sera conjointement décidé. La partie qui en prend l'initiative, avertira par écrit l'autre partie.
Article 12 → **Durée Du Contrat**	Le présent contrat est conclu pour une durée de deux (05) années. Il peut être prorogé pour une égale durée, par avenant. La partie intéressée doit saisir par écrit l'autre partie, trois (03) mois avant l'échéance initiale.

Fait à Jijel,
Le :

M.MADENE Abdelmalek
Le Chef d'Agence URBACO- JIJEL -

Fait à Jijel,
Le :

Pr. AMIRECHEHamza
Le recteur de l'université

REPUBLIQUE ALGERIENNE DEMOCRATIQUE ET POPULAIRE

الجمهورية الجزائرية الديمقراطية الشعبية

Ministère de l'enseignement supérieur et de la recherche scientifique

وزارة التعليم العالي والبحث العلمي

Université Mohamed Seddik BENYAHIA.JIJEL

جامعة محمد الصديق بن يحي، جيجل

CONVENTION GENERALE DE COOPERATION SCIENTIFIQUE TECHNIQUE ET DE FORMATION

Entre

Le Département d'Architecture de la Faculté des Sciences et de la Technologie de l'université Mohamed Seddik Ben Yahia de Jijel

Et

Etablissement Public de Wilaya de Gestion des Espaces Verts, Airs de Loisir et Eclairage Public- Jijel (EPW GEVALEP-Jijel)

EPW GEVALEP

مؤسسة عمومية ولائية

لتسيير المساحات الخضراء، الفضاءات الترفيهية و إنارة العمومية لولاية جيجل

Etablissement Public De Wilaya

De Gestion Des Espaces Verts, Aires De Loisirs Et Eclairage Public

Wilaya De Jijel

1/6

PREAMBULE

• Considérant la mise en place de la réforme des enseignements du supérieur (régime "Licence-Master-Doctorat") ;
• Considérant la mission de formation pédagogique (Licence et master) dévolue au département d'architecture de la faculté des Sciences et de la Technologie de l'université Mohamed Seddik Ben Yahia de Jijel ;
• Considérant le projet de lancement d'une formation de licence intitulée : **Licence Professionnelle en Gestion des Techniques Urbaines (GTU) ;**
• Considérant les missions de recherche approfondie et de formation dévolues aux différents laboratoires de recherche nationaux du département d'architecture, de la faculté des sciences de l'ingénieur et de l'université Mohamed Seddik Ben Yahia de Jijel (CBE Cadre Bati et Environnement et autres .....) ;
• Considérant le secteur de production et les processus technologiques en vigueur au sein de l'entreprise ;
• Considérant la nécessité de créer et de développer des relations intersectorielles « Université - Industrie - Entreprise – Municipalité » ;

D'une part

Le Département d'Architecture de la Faculté des Sciences et de la Technologie de l'université Mohamed Seddik Ben Yahia de Jijel, désignée dans ce qui suit par le **département d'architecture.**

Sis à BP 98, Ouled Aïssa, Jijel 18000.
Représenté par Le recteur de l'université : **Pr. AMIRECHE Hamza**

Et d'autre part,

Etablissement Public de Wilaya de Gestion des Centres d'Enfouissement Technique - Jijel (EPW GEVALEP) désigné dans ce qui suit par **(EPW GEVALEP-Jijel)** ; sis a la cite administratif troisième étage 18000 Jijel ;
Représenté par : **Mr.Abdellah Yazid**

Décident de la matérialisation d'une coopération par la signature de la présente convention

Article 01 →
Objet

Le présent article a pour objectif de définir un cadre de coopération et d'échange entre **EPW GEVALEP-Jijel** et **Le Département d'Architecture** Les deux partenaires décident de tout mettre en œuvre pour favoriser le développement d'échanges scientifique, technique, de formation, d'assistance mutuelle et d'autres dans la limite de leurs missions, objectifs, programmes et moyens respectifs conformément a la législation qui leur est applicable

Article 02 →
Contenu

Les échanges et la coopération entre les deux établissements peuvent revêtir les formes citées dans alinéas suivants :

- L'exécution par le département d'architecture des travaux d'expertises et de recherches appliquées dans le domaine de l'architecture, l'urbanisme et les métiers de la ville ;
- Le recyclage, la mise à niveau (éventuellement : la formation) et la spécialisation des personnels technique de **EPW GEVALEP-Jijel** Par le corps d'enseignants chercheurs du département d'architecture ;
- La participation de **EPW GEVALEP-Jijel** dans le cursus universitaire des étudiants :
  - ✓ En cours et en fin de cycle de Licence et Master
  - ✓ En Doctorat

Cette Participation s'entend :

- ✓ En termes d'accueil d'encadrement technique des stages pratiques au niveau de l'entreprise (objet d'une convention particulière et individualisée : voir annexes) ;
- ✓ Et en termes de participation aux taches pédagogiques (support humain à la tache d'enseignement en travaux dirigés et ou en pratiques) ;

- La formation et le conseil informatique ingénierie La participation de **EPW GEVALEP-Jijel** dans l'organisation et ou le sponsoring (éventuellement) de manifestations scientifiques organisées par **Le Département d'Architecture** ;
- Toute forme de coopération proposée par une partie, acceptée par l'autre partie et qui ferra l'objet d'un addendum a la présente convention ;

Article 03 →
Conditions De Mise En Œuvre

Chaque projet fera l'objet d'un contrat entre : **"Département d'Architecture." Et EPW GEVALEP-Jijel** Le contrat a pour but de déterminer l'objectif visé, le programme des travaux, les droits et obligations des parties, ainsi que l'évaluation globale et l'apport de chaque partie.

Les deux parties conviennent de mettre en place dans les quinze (15) jours qui suivent la signature du présent contrat de coopération, un comité de quatre (4) membres, chargé de :

- ✓ Définir les axes et thèmes de coopération ;
- ✓ Soumettre les contrats des projets au Président Directeur Général de l'**EPW GEVALEP-Jijel** et au Recteur du **l'université Mohamed Seddik Ben Yahia de Jijel** ;

✓ Assurer le suivi et la coordination des projets ;

✓ Evaluer les résultats des projets et de la coopération ;

✓ Créer des groupes de travail, dont La présidence sera assurée annuellement à tour de rôle. Il se réunit deux (2) fois par an dans un lieu agrée par les deux parties. Chacune des deux parties désignera ses représentants, par lettre, dans un délai de quinze (15) jours après la signature du contrat. La lettre de désignation sera annexée au contrat. Pour tout échange d'information ou de documentation, la partie qui en ressent le besoin doit exprimer par demande écrite à l'autre partie qui se charge de prendre les dispositions utiles pour la satisfaire. Toute prestation de service effectuée par un spécialiste de l'une des deux parties au bénéfice exclusif de l'autre partie fera l'objet d'un contrat fixant les modalités pratiques de sa réalisation.

Article 04 → Obligation Des Parties

- **" Le Département d'Architecture."** assure :

✓ L'encadrement scientifique de ses stagiaires,

✓ La contribution à la mise à niveau (enseignements théoriques et pratiques en vue de l'actualisation des connaissances) des personnels de "l'entreprise",

✓ L'inscription des ingénieurs de "l'entreprise" en post graduation (PG) ou post-graduation spécialisée (PGS) conformément à la réglementation ;

✓ La restitution a **" l'EPW GEVALEP-Jijel "**, dans l'état — tel que reçu -, de la totalité des documents, y compris les données brutes obtenues au cours des analyses de laboratoires ainsi que des interprétations.

✓ Le dépôt auprès du service de la documentation de "l'entreprise" de deux exemplaires du rapport final de l'étude et de la thèse clôturant le projet.

✓ L'engagement de publier les dits documents dans les revues et les bulletins édités par les deux parties.

✓ L'accès au fond documentaire de la bibliothèque du" **Département d'Architecture."** Aux personnels techniques de **l'EPW GEVALEP-Jijel**

✓ **"Le Département d'Architecture."** Est de même, disposée à assurer une "formation à la carte" : diplôme de Licence Professionnelle ou de Master professionnel dans les spécialités et filières de son domaine de formation.

- **" EPW GEVALEP-Jijel "** assure :

✓ La documentation et les informations disponibles relatives à la réalisation de tout projet,

✓ Le soutien, la prise en charge des étudiants lors des visites pédagogiques, les stages de fin d'études et autres missions du **"Département d'Architecture."** En entreprise, dans la mesure des moyens disponibles.

✓ Le soutien, par son personnel qualifié, à la mission

pédagogique du **"Département d'Architecture."** (Support humain à la tache d'enseignement pratique).

Article 05 → **Confidentialité**

" Le Département d'Architecture" et tous les personnels concernés : chercheurs engagés dans un programme de cet accord) sont strictement tenus au respect du secret professionnel et à la confidentialité des travaux. Ils s'engagent à ne transférer, céder ou communiquer à aucun tiers, tout document, rapport, données ou toute information transmise par "l'entreprise" ou acquise dans le cadre du programme en question.
L'engagement des chercheurs est individuel et écrit.
La publication ou communication de l'étude partiellement ou totalement sous quelques formes que ce soit, est strictement interdite sans l'accord préalable des deux parties.

Article 06 → **Propriété Intellectuelle**

Les résultats des travaux réalisés en commun demeurent la propriété exclusive de "l'Entreprise". L'ensemble des résultats et des documents y afférent jusqu'au stade d'arrêt du projet sont propriété unique de **" l'EPW GEVALEP-Jijel ",** hormis ceux mis à disposition par chacune des parties.
Dans l'exécution du présent accord, les deux parties veilleront au strict respect des dispositions réglementaires en vigueur en matière de propriété industrielle, de protection et de diffusion de l'information.

Article 07 → **Responsabilité**

Chacune des parties conserve à sa propre charge dans les conditions de droits communs, les conséquences intégrales de la responsabilité civile ainsi que celle de ses chercheurs préposés ou représentants pour tout dommage causé à des tiers du fait de son activité au titre du présent accord. Chaque partie prend en charge l'assurance de ses chercheurs.
Dans le cas où un ou plusieurs projets de coopération ne se concrétise (... ent) pas, aucune partie ne pourra réclamer à l'autre un quelconque dédommagement, intérêt ou droit à quelque titre que ce soit.

Article 08 → **Règlement Des Différends**

Tout différend survenant à l'occasion de l'interprétation ou de l'exécution du présent accord sera réglé, en priorité, à l'amiable.
Le cas échéant, il sera fait appel au tribunal territorialement compétent.

Article 09 → **Résiliation De L'accord Cadre**

En cas de manœuvre dilatoire d'une des deux parties, une mise en demeure, avec accusé de réception sera transmise à la partie défaillante, d'avoir à prendre les mesures requises pour pallier à la situation.
Le cas échéant, la résiliation sera notifiée par lettre recommandée avec accusé de réception, 30 jours après la mise en demeure.

Article 10 → **Force Majeure**

Aucune partie ne saurait être responsable de l'inexécution partielle ou totale de ses engagements en cas de force majeure, laquelle est entendue comme tout événement externe aux parties insurmontable et imprévisible.

	La partie la subissant est tenue d'en avertir l'autre partie après sa survenance. Les délais de réalisation seront prorogés en conséquence.
Article 11 → Modification	Toute modification aux termes du présent accord sera conjointement décidé. La partie qui en prend l'initiative, avertira par écrit l'autre partie.
Article 12 → Durée Du Contrat	Le présent contrat est conclu pour une durée de trois (03) années. Il peut être prorogé pour une égale durée, par avenant. La partie intéressée doit saisir par écrit l'autre partie, trois (03) mois avant l'échéance initiale.

Fait à Jijel,
Le : 2020 مارس 03

Mr. ABDALLAH YAZID
Le Directeur de EPW GEVALEP-Jijel

Fait à Jijel,
Le : 03 MARS 2020

Pr. AMIRECHE HAMZA
Le Recteur de l'Université

مدير الجامعة بالنيابة
أ.د عميرش حمزة

REPUBLIQUE ALGERIENNE DEMOCRATIQUE ET POPULAIRE
الجمهورية الجزائرية الديمقراطية الشعبية
Ministère de l'enseignement supérieur et de la recherche scientifique
وزارة التعليم العالي والبحث العلمي
Université Mohamed Seddik BENYAHIA.JIJEL
جامعة محمد الصديق بن يحي، جيجل

CONVENTION GENERALE DE COOPERATION SCIENTIFIQUE TECHNIQUE ET DE FORMATION

Entre

Le Département d'Architecture de la Faculté des Sciences et de la Technologie de l'université Mohamed Seddik Ben Yahia de Jijel

Et

l'Office National de l'Assainissement (ONA)
Unité de Jijel

O N A
الديوان الوطني للتطهير
Office National de l'Assainissement

PREAMBULE

• Considérant la mise en place de la réforme des enseignements du supérieur (régime "Licence-Master-Doctorat") ;
• Considérant la mission de formation pédagogique (Licence et master) dévolue au département d'architecture de la faculté des Sciences et de la Technologie de l'université Mohamed Seddik Ben Yahia de Jijel ;
• Considérant le projet de lancement d'une formation de licence intitulée : **Licence Professionnelle en Gestion des Techniques Urbaines (GTU) ;**
• Considérant les missions de recherche approfondie et de formation dévolues aux différents laboratoires de recherche nationaux du département d'architecture, de la faculté des sciences de l'ingénieur et de l'université Mohamed Seddik Ben Yahia de Jijel (CBE Cadre Bati et Environnement et autres .....) ;
• Considérant le secteur de production et les processus technologiques en vigueur au sein de l'entreprise ;
• Considérant la nécessité de créer et de développer des relations intersectorielles « Université - Industrie - Entreprise – Municipalité » ;

D'une part

Le Département d'Architecture de la Faculté des Sciences et de la Technologie de l'université Mohamed Seddik Ben Yahia de Jijel, désignée dans ce qui suit par le **département d'architecture.**

Sis à BP 98, Ouled Aïssa, Jijel 18000.
Représenté par Le recteur de l'université : **Pr. AMIRECHE Hamza**

Et d'autre part,

L'Office National de l'Assainissement (ONA) Unité de Jijel désignée dans ce qui suit par **(ONA-JIJEL)**
; sis a la Cité Administrative -Jijel ;
Représentée par son directeur : **Mr.BENDJEDDOU ALI**

Décident de la matérialisation d'une coopération par la signature de la présente convention

Article 01 → **Objet**

Le présent article a pour objectif de définir un cadre de coopération et d'échange entre **l'ONA-JIJEL et Le Département d'Architecture** Les deux partenaires décident de tout mettre en œuvre pour favoriser le développement d'échanges scientifique, technique, de formation, d'assistance mutuelle et d'autres dans la limite de leurs missions, objectifs, programmes et moyens respectifs conformément a la législation qui leur est applicable

Article 02 → **Contenu**

Les échanges et la coopération entre les deux établissements peuvent revêtir les formes citées dans alinéas suivants :

- L'exécution par le département d'architecture des travaux d'expertises et de recherches appliquées dans le domaine de l'architecture, l'urbanisme et les métiers de la ville ;
- Le recyclage, la mise à niveau (éventuellement : la formation) et la spécialisation des personnels technique de **l'ONA-JIJEL** Par le corps d'enseignants chercheurs du département d'architecture ;
- La participation de **l'ONA-JIJEL** dans le cursus universitaire des étudiants :
  - ✓ En cours et en fin de cycle de Licence et Master
  - ✓ En Doctorat

Cette Participation s'entend :

- ✓ En termes d'accueil d'encadrement technique des stages pratiques au niveau de l'entreprise (objet d'une convention particulière et individualisée : voir annexes) ;
- ✓ Et en termes de participation aux taches pédagogiques (support humain à la tache d'enseignement en travaux dirigés et ou en pratiques) ;

- La formation et le conseil informatique ingénierie La participation de **l'ONA-JIJEL** dans l'organisation et ou le sponsoring (éventuellement) de manifestations scientifiques organisées par **Le Département d'Architecture ;**
- Toute forme de coopération proposée par une partie, acceptée par l'autre partie et qui ferra l'objet d'un addendum a la présente convention ;

Article 03 → **Conditions De Mise En Œuvre**

Chaque projet fera l'objet d'un contrat entre : **"Département d'Architecture." Et l'ONA-JIJEL** Le contrat a pour but de déterminer l'objectif visé, le programme des travaux, les droits et obligations des parties, ainsi que l'évaluation globale et l'apport de chaque partie.

Les deux parties conviennent de mettre en place dans les quinze (15) jours qui suivent la signature du présent contrat de coopération, un comité de quatre (4) membres, chargé de :

- ✓ Définir les axes et thèmes de coopération ;
- ✓ Soumettre les contrats des projets au Président Directeur Général de **l'ONA-JIJEL** et au Recteur du **l'université Mohamed Seddik Ben Yahia de Jijel ;**
- ✓ Assurer le suivi et la coordination des projets ;
- ✓ Evaluer les résultats des projets et de la coopération ;

✓ Créer des groupes de travail, dont La présidence sera assurée annuellement à tour de rôle. Il se réunit deux (2) fois par an dans un lieu agrée par les deux parties. Chacune des deux parties désignera ses représentants, par lettre, dans un délai de quinze (15) jours après la signature du contrat. La lettre de désignation sera annexée au contrat. Pour tout échange d'information ou de documentation, la partie qui en ressent le besoin doit exprimer par demande écrite à l'autre partie qui se charge de prendre les dispositions utiles pour la satisfaire. Toute prestation de service effectuée par un spécialiste de l'une des deux parties au bénéfice exclusif de l'autre partie fera l'objet d'un contrat fixant les modalités pratiques de sa réalisation.

Article 04 →
Obligation Des Parties

- **" Le Département d'Architecture."** assure :

✓ L'encadrement scientifique de ses stagiaires,

✓ La contribution à la mise à niveau (enseignements théoriques et pratiques en vue de l'actualisation des connaissances) des personnels de "l'entreprise",

✓ L'inscription des ingénieurs de "l'entreprise" en post graduation (PG) ou post-graduation spécialisée (PGS) conformément à la réglementation ;

✓ La restitution à **" l'ONA-JIJEL ",** dans l'état — tel que reçu -, de la totalité des documents, y compris les données brutes obtenues au cours des analyses de laboratoires ainsi que des interprétations.

✓ Le dépôt auprès du service de la documentation de "l'entreprise" de deux exemplaires du rapport final de l'étude et de la thèse clôturant le projet.

✓ L'engagement de publier les dits documents dans les revues et les bulletins édités par les deux parties.

✓ L'accès au fond documentaire de la bibliothèque du" **Département d'Architecture."** Aux personnels techniques de **l'ONA-JIJEL**

✓ **"Le Département d'Architecture."** Est de même, disposée à assurer une "formation à la carte" : diplôme de Licence Professionnelle ou de Master professionnel dans les spécialités et filières de son domaine de formation.

- **" l'ONA-JIJEL "** assure :

✓ La documentation et les informations disponibles relatives à la réalisation de tout projet,

✓ Le soutien, la prise en charge des étudiants lors des visites pédagogiques, les stages de fin d'études et autres missions du **"Département d'Architecture."** En entreprise, dans la mesure des moyens disponibles.

✓ Le soutien, par son personnel qualifié, à la mission pédagogique du **"Département d'Architecture."** (Support humain à la tache d'enseignement pratique).

Article 05 → Confidentialité

" Le Département d'Architecture" et tous les personnels concernés : chercheurs engagés dans un programme de cet accord) sont strictement tenus au respect du secret professionnel et à la confidentialité des travaux. Ils s'engagent à ne transférer, céder ou communiquer à aucun tiers, tout document, rapport, données ou toute information transmise par "l'entreprise" ou acquise dans le cadre du programme en question.
L'engagement des chercheurs est individuel et écrit.
La publication ou communication de l'étude partiellement ou totalement sous quelques formes que ce soit, est strictement interdite sans l'accord préalable des deux parties.

Article 06 → Propriété Intellectuelle

Les résultats des travaux réalisés en commun demeurent la propriété exclusive de "l'Entreprise". L'ensemble des résultats et des documents y afférent jusqu'au stade d'arrêt du projet sont propriété unique de **" l'ONA-JIJEL ",** hormis ceux mis à disposition par chacune des parties.
Dans l'exécution du présent accord, les deux parties veilleront au strict respect des dispositions réglementaires en vigueur en matière de propriété industrielle, de protection et de diffusion de l'information.

Article 07 → Responsabilité

Chacune des parties conserve à sa propre charge dans les conditions de droits communs, les conséquences intégrales de la responsabilité civile ainsi que celle de ses chercheurs préposés ou représentants pour tout dommage causé à des tiers du fait de son activité au titre du présent accord. Chaque partie prend en charge l'assurance de ses chercheurs.
Dans le cas où un ou plusieurs projets de coopération ne se concrétise (... ent) pas, aucune partie ne pourra réclamer à l'autre un quelconque dédommagement, intérêt ou droit à quelque titre que ce soit.

Article 08 → Règlement Des Différends

Tout différend survenant à l'occasion de l'interprétation ou de l'exécution du présent accord sera réglé, en priorité, à l'amiable.
Le cas échéant, il sera fait appel au tribunal territorialement compétent.

Article 09 → Résiliation De L'accord Cadre

En cas de manœuvre dilatoire d'une des deux parties, une mise en demeure, avec accusé de réception sera transmise à la partie défaillante, d'avoir à prendre les mesures requises pour pallier à la situation.
Le cas échéant, la résiliation sera notifiée par lettre recommandée avec accusé de réception, 30 jours après la mise en demeure.

Article 10 → Force Majeure

Aucune partie ne saurait être responsable de l'inexécution partielle ou totale de ses engagements en cas de force majeure, laquelle est entendue comme tout événement externe aux parties insurmontable et imprévisible.
La partie la subissant est tenue d'en avertir l'autre partie après sa

	survenance. Les délais de réalisation seront prorogés en conséquence.
Article 11 → Modification	Toute modification aux termes du présent accord sera conjointement décidé. La partie qui en prend l'initiative, avertira par écrit l'autre partie.
Article 12 → Durée Du Contrat	Le présent contrat est conclu pour une durée de trois (03) années. Il peut être prorogé pour une égale durée, par avenant. La partie intéressée doit saisir par écrit l'autre partie, trois (03) mois avant l'échéance initiale.

Fait à Jijel,
Le : 17 MARS 2020
Mr BENDJEDDOU Ali
Le Directeur de l'ONA-JIJEL

Fait à Jijel.
Le : 17 MARS 2020
Pr. AMIRECHE Hamza
Le recteur de l'université

Convention

Entre l'Université Mohamed Seddik BENYAHIA de Jijel, Faculté des Sciences et de la Technologie Représentée par son Doyen : Mekideche Med Rachid .....

Et

L'établissement ou l'administration d'accueil : AADL- JIJEL .....
Représenté par : MAKHTOUT FAWZI .....

OBJET : Approbation du projet de lancement d'une formation de licence intitulée : Licence Professionnelle en Gestion des Techniques Urbaines (GTU)

Dispensé à : Département d'Architecture de l'Université de Jijel

Par la présente, l'entreprise AADL- JIJEL .....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 :

- 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 (ou Madame) MAKHTOUT FAWZI .....est désigné(e) comme coordonnateur externe de ce projet.

Fait à JIJEL, le 12/02/2020

L'établissement de l'enseignement Supérieur
Représenté par le Doyen de la Faculté des Sciences et de la Technologie

عميد كلية العلوم والتكنولوجيا
الأستاذ : مقدش محمد رشيد

L'établissement ou l'administration d'accueil
Représenté par : .....

مدير المشاريع بالنيابة
مخطوط فوزي

Convention

Entre l'Université Mohamed Seddik BENYAHIA de Jijel, Faculté des Sciences et de la Technologie Représentée par son Doyen : Mekideche Med Rachid .....

Et

L'établissement ou l'administration d'accueil : Entreprise Portuaire de Djen Djen
Représenté par : Président Directeur Général Mr BOUAB Abdeslem

OBJET : Approbation du projet de lancement d'une formation de licence intitulée : Licence Professionnelle en Gestion des Techniques Urbaines (GTU)

Dispensé à : Département d'Architecture de l'Université de Jijel

Par la présente, l'entreprise Portuaire de Djen Djen 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 :

- 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 (ou Madame) .....est désigné(e) comme coordonnateur externe de ce projet.

Fait à JIJEL, le 10 FEV. 2020

L'établissement de l'enseignement Supérieur
Représenté par le Doyen de la Faculté des Sciences et de la Technologie

L'établissement ou l'administration d'accueil
Représenté par : .....

BOUAB Abdeslem
Président Directeur Général

Convention

Entre l'Université Mohamed Seddik BENYAHIA de Jijel, Faculté des Sciences et de la Technologie Représentée par son Doyen : Mekideche Med Rachid ....

Et

L'établissement ou l'administration d'accueil : BET d'Architecture et d'urbanisme BOUBEZARI Nassim
Représenté par : BOUBEZARI Nassim ....

OBJET : Approbation du projet de lancement d'une formation de licence intitulée : Licence Professionnelle en Gestion des Techniques Urbaines (GTU)

Dispensé à : Département d'Architecture de l'Université de Jijel

Par la présente, l'entreprise BET d'Architecture et d'urbanisme BOUBEZARI Nassim 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 :

- 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 (ou ~~Madame~~) ...... BOUBEZARI Nassim ...... est désigné(e) comme coordonnateur externe de ce projet.

Fait à JIJEL ......, le 04/01/2020

L'établissement de l'enseignement Supérieur Représenté par le Doyen de la Faculté des Sciences et de la Technologie	L'établissement ou l'administration d'accueil Représenté par : BOUBEZARI Nassim ......

Convention

Entre l'Université Mohamed Seddik BENYAHIA de Jijel, Faculté des Sciences et de la Technologie Représentée par son Doyen : Mekideche Med Rachid .....

Et

L'établissement ou l'administration d'accueil : KEDDAM ARCHITECTE URBANISTE
Représenté par : AMMAR KEDDAM

OBJET : Approbation du projet de lancement d'une formation de licence intitulée : Licence Professionnelle en Gestion des Techniques Urbaines (GTU)

Dispensé à : Département d'Architecture de l'Université de Jijel

Par la présente, l'entreprise KEDDAM ARCHITECTE URBANISTE 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 :

- 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 (ou Madame) AMMAR KEDDAM est désigné(e) comme coordonnateur externe de ce projet.

Fait à JIJEL, le 05/02/2020

L'établissement de l'enseignement Supérieur
Représenté par le Doyen de la Faculté
des Sciences et de la Technologie

L'établissement ou l'administration d'accueil
Représenté par : A - KEDDAM

Convention

Entre l'Université Mohamed Seddik BENYAHIA de Jijel, Faculté des Sciences et de la Technologie Représentée par son Doyen : Mekideche Med Rachid .....

Et

L'établissement ou l'administration d'accueil : BET "PYRAMID"
Représenté par : KEDJA Fatah

OBJET : Approbation du projet de lancement d'une formation de licence intitulée : Licence Professionnelle en Gestion des Techniques Urbaines (GTU)

Dispensé à : Département d'Architecture de l'Université de Jijel

Par la présente, l'entreprise BET "PYRAMID" 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 :

- 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 (ou Madame) KEDJA Fatah est désigné(e) comme coordonnateur externe de ce projet.

Fait à Jijel, le 04/04/2020

L'établissement de l'enseignement Supérieur
Représenté par le Doyen de la Faculté
des Sciences et de la Technologie

L'établissement ou l'administration d'accueil
Représenté par : KEDJA Fatah

Convention

Entre l'Université Mohamed Seddik BENYAHIA de Jijel, Faculté des Sciences et de la Technologie Représentée par son Doyen : Mekideche Med Rachid .....

Et

L'établissement ou l'administration d'accueil : BET ZAZOUA .....
Représenté par : M^r ZAZOUA YASSINE .....

OBJET : Approbation du projet de lancement d'une formation de licence intitulée : Licence Professionnelle en Gestion des Techniques Urbaines (GTU)

Dispensé à : Département d'Architecture de l'Université de Jijel

Par la présente, l'entreprise BET ZAZOUA 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 :

- 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 (ou Madame) ZAZOUA YASSINE est désigné(e) comme coordonnateur externe de ce projet.

Fait à JIJEL, le 04/04/2020

L'établissement de l'enseignement Supérieur
Représenté par le Doyen de la Faculté
des Sciences et de la Technologie

L'établissement ou l'administration d'accueil
Représenté par : ZAZOUA YASSINE

ZAZOUA Yassine
Architecte d'état agrée
Agrément d'état N° : L00848/18/96
2, Route de la Soummam Jijel

Convention

Entre l'Université Mohamed Seddik BENYAHIA de Jijel, Faculté des Sciences et de la Technologie Représentée par son Doyen : Mekideche Med Rachid .....

Et

L'établissement ou l'administration d'accueil : KHELLAF ARCHITECTURE
Représenté par : KHELLAF AMEL

OBJET : Approbation du projet de lancement d'une formation de licence intitulée : Licence Professionnelle en Gestion des Techniques Urbaines (GTU)

Dispensé à : Département d'Architecture de l'Université de Jijel

Par la présente, l'entreprise KHELLAF ARCHITECTURE 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 :

- 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 (ou Madame) KHELLAF AMEL est désigné(e) comme coordonnateur externe de ce projet.

Fait à Jijel, le 05/02/2020

L'établissement de l'enseignement Supérieur
Représenté par le Doyen de la Faculté
des Sciences et de la Technologie

L'établissement ou l'administration d'accueil
Représenté par : KHELLAF AMEL

KHELLAF Amel
Architecte Agréé
Agr : L.15/18/21106
Tel:0780 43 34 94

V- Brief curriculum vitae of the teaching team

(Internal and external / according to the attached model)

(A team of 3 members minimum, 1/unit for 2 semesters)

Short Curriculum Vitae

Name and surname: AIDAT Adila
Date and place of birth: 04/23/1983 in Jijel
Email and telephone:adila_dah@yahoo.com / TEL: 0561 23 87 24

Grade: Assistant Professor Class A

Establishment or institution of attachment: Mohammed Seddik BENYAHIA-Jijel University

Diplomas obtained (graduation, post-graduation, etc.) with date and place of obtaining and specialty: Master's degree, option; urban project, obtained in May 2008 at Mentouri University in Constantine

Professional teaching skills (subjects taught etc.)

Project Workshop 1/ Project Workshop 2 Project Workshop 5/ Project Workshop 6 HCA 5/ HCA 6 (Course and tutorial)
Supervision of PFE and MFE (Master 2)

Short Curriculum Vitae

Name and surname: AMIRECHE Hamza
Date and place of birth: 1955 in Ouled Asker Jijel
Email and telephone:hamzaamireche@yahoo.fr / 0661
18 25 23 Grade: Professor
Establishment or institution of attachment: Mohamed Seddik BENYAHIA University. JIJEL

Diplomas obtained:

Baccalaureate – Constantine – 1975.
DES in Rural Planning – Constantine University – 1980.
DEA – Physical Geography – Aix Marseille II University France – 1981.
Third cycle doctorate in Geomorphology – Aix Marseille II University – France – 1984.
State doctorate in Geomorphology – Mentouri Brothers University – 2001.

Professional teaching skills: (subjects taught, etc.)

Soil erosion
Natural Risks and Risk Management Land Use
Planning

Previously held positions

Head of the Regional Planning Department 2009 – Faculty of Earth Sciences – Constantine University.
Director of the GTU Institute – Salah Boubnider University, Constantine 3
University. Director of ENSMM Annaba – January 2019 to September 2019.
Rector of MS Benyahia University since 2019.

Resume

Name and surname: AOUICI Amina
Date and place of birth: 20/06/1988 in Taher-Jijel
Phone: 00 213 (0)5 52 53 38 29
E-mail:archiaminaa@gmail.com
Grade: Assistant Master B
Establishment of attachment: Mohammed Seddik BENYAHIA-Jijel University

Diplomas and training:

- **June 2011**:

State architect diploma / Option: Architecture and Technology / Polytechnic School of Architecture and Urban Planning of Algiers “EPAU”.

- **April 2016:**

Master's degree / Option: Architecture / Specialization in “Heritage Preservation Strategy” / Constantine 3 University.

Professional and educational experience:

- **2011/2012**:Architect (CID) within the urban planning study and implementation center “URBACO” Jijel agency.
- **2012/2013**: Part-time lecturer / Module: (Project 1-S1- and Photography in Architecture L2 -S2-) / Department of Architecture - University of Jijel
- **2013/2014**: Part-time lecturer/ Module: (L2 survey technique)/ Department of Architecture - University of Jijel
- **2014/2015:**Part-time lecturer/ Module: (Project 1 (M1) architecture and technology –S1- and Photography in architecture L2-S2-) / Department of Architecture - University of Jijel
- **2015/2016:**Part-time lecturer/Module: (L2-S1 Survey Technique and L2-S2 Architectural Photography) / Department of Architecture - University of Jijel
- **2016/2017:**Assistant Professor Class B/Department of Architecture/Faculty of Science and Technology/University of Jijel

Short Curriculum Vitae

Name and surname: BABA m. SISSAOUI Rima
Date and place of birth: 24-01-1988 El-Milia- Jijel
Email and telephone:baba_rima@yahoo.com ,
06.98.15.91.51. Grade: Assistant Professor Class A
Establishment or institution of attachment: Mohammed Seddik BENYAHIA-Jijel University

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

1. Architectural Engineering, 2010, Mohammed Seddik BENYAHIA-Jijel University

2. Master's degree in architecture (option: strategies and preservation of heritage), 2014, Constantine 3 University.

Professional teaching skills (subjects taught etc.)

1. Built heritage and sustainability (Course + tutorials)
2. Master's project in architecture and heritage
3. Preservation of architectural heritage (Course + tutorials)
4. Architectural restoration and rehabilitation techniques (Course + tutorials)
5. Drawing and graphic art
6. Modeling
7. TD HCA 3 Year

Short Curriculum Vitae

Name and surname: BENKECHKACHE Ghofrane
Date and place of birth: October 9, 1981 Constantine
Email and telephone:b_ghofrane@yahoo.fr
213669995240
Grade: Lecturer /B
Establishment or institution of attachment: Mohammed Seddik BENYAHIA-Jijel University

Diplomas obtained:

- State engineering: Civil engineering; Civil and industrial construction / June 27, 2005 in Constantine.
- Master's degree: Civil Engineering; Structural Mechanics / December 11, 2007 in Constantine.
- Doctorate: Civil Engineering; Materials and Structures / April 5, 2012 in Constantine. Professional teaching skills (subjects taught, etc.) Module: Structure (third year LMD).

Special Structures Module (first year of Master's degree)

Short Curriculum Vitae

First and last name :BENZAID Riad
Date and place of birth :10/07/1975
Email and telephone:benzaid.riad@gmail.com / 0559 038 728
Grade : Lecturer (A)
Establishment or institution of attachment: Mohammed Seddik BENYAHIA-Jijel University

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

- **University Accreditation**in Civil Engineering from the Mentouri Brothers University-
  Constantine, publicly supported on January 21, 2015.
- **Doctorate in Science**in Civil Engineering from the University of the Mentouri Brothers - Constantine, Algeria and 3rd cycle Doctorate in Civil Engineering from the National Institute of Applied Sciences of Rennes (INSA of Rennes), France (joint thesis supervision: 2006-2010), publicly defended in Constantine on 06
  July 2010.
- **Master**in Geotechnics from Badji-Mokhtar University, Annaba, Algeria, publicly supported on July 2, 2002.
- **Engineering**in Civil Engineering, specializing in roads and engineering structures at the University
  from the Mentouri Brothers - Constantine, Algeria, obtained on July 3, 1999.

Professional teaching skills (subjects taught etc.)

- Resistance of materials
- Soil mechanics
- Applied soil mechanics
- Soil mechanics supplement
- Calculation and design of foundations
- Rock mechanics
- Laboratory tests (TP/MDS)
- Geotechnical Reconnaissance
- Geophysical Reconnaissance
- Methodology for the recognition of major works
- Physical environment and land use planning risks related to soil and subsoil (part: natural risks).
- Soil reinforcement technology
- Research methodology

Brief Curriculum Vitae

Name and first name: BLIBLI Mustapha
Date and place of birth :07/22/1972 in Jijel
Email and telephone:musblibli@gmail.com - mblibli @univ-jijel.dz
07 70 974 962
Grade : Assistant Master “A”
Establishment or institution of attachment: Mohammed Seddik BENYAHIA-Jijel University
Diplomas obtained (graduation, post-graduation, etc.) with date and place of obtaining and specialty:

- State Architect July 1995 Institute of Architecture - Ferhat Abbas-Setif University
- MagisteriumJuly 2010 Department of Architecture-Faculty of Science and Technology - Mohamed Seddik ben yahia University-Jijel

Professional teaching skills (subjects taught etc.)

- **References Professional:** mastery work (architect approved) ofSeptember 2000 to December 2013.
- **scientific references:**- participation to seminars and conferences
  - Research officer – CNEPRU project – at the LRCBE laboratory
- **Educational References**

- Project 3, 4, 5 and 6 (L2, L3)
- Architectural and urban model
- architectural survey techniques L2
- project management and economics / Master Architecture and Technology S2
- architectural rehabilitation and restoration techniques / Master's in architecture and heritage – S2.
- Project 1 and 2 master architecture and habitat and sustainability.
- project 3 and 4 Master architecture and heritage (MFE/PFE supervision).
- Master 2 S1/S2 seminar.
-

Short Curriculum Vitae

Name and surname: BOUCHAIR Ammar
Date and place of birth :1958 in Tassala (Mila)
Email and telephone:abouchair@gmail.com / 07 90 02 23 03
Grade : Teacher

Establishment or institution of attachment: Mohammed Seddik BENYAHIA-Jijel University

Diplomas obtained (graduation, post-graduation, etc.) with date and place of obtaining and specialty: - Baccalaureate: June 1979 - Graduation Diploma: June 1984 - Master's Degree: - Doctorate Degree: October 1989

Professional teaching skills (subjects taught etc.)

- Project (e.g.: Workshop). - Project theory (L1 + M1).
- Dissertation methodology,
- Supervision of master's and doctoral dissertations.

Brief Curriculum Vitae

Name and first name: BOUCHEFRA Hassina
Date and place of birth: 12/23/1979 in Jijel

Email and telephone:hbouchafra@yahoo.com / tel: 0550560509 Grade: Assistant Professor class A
Establishment or institution of attachment: Mohammed Seddik BENYAHIA-Jijel University

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

- **State engineer's diploma in regional planning**: Option: Urban Planning.
  Mentouri University: Faculty of Earth Sciences, Geography and Regional Planning, Constantine. Year: 2002.
- **Master's Degree in Regional Planning**: Option: Regional planning.
  Mentouri University, Faculty of Earth Sciences, Geography and Regional Planning, Constantine.
  Year: 2006.

Professional teaching skills (subjects taught etc.) Subjects taught:

- Public procurement (3rd Year GTU): 2007-2011
- Urban sociology (3rd Year Architecture): 2011-2013
- Urban sociology and psychology of space 1 and 2 (2nd Year Architecture): 2011-2013
- Urban geography and urban planning (4th year architecture): 2011-2013
- Urban geography (3rd year Architecture): 2012-2014
- Urban planning (5th Year Architecture): 2011-2013
- Spatial planning and development 1 and 2 (3rd Year Architecture): 2012 -2018

Short Curriculum Vitae

Name and surname: BOUHIDEL Nour El Houda
Date and place of birth :12/24/1986 in Tamanrasset
Email and telephone:tinhouda86@hotmail.com Mobile: 213 560 03 00 05
Grade : Assistant Professor “B”
Establishment or institution of attachment: Mohammed Seddik BENYAHIA-Jijel University.

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

- **June 2009**: Diploma in Architecture, University of Mohammed Seddik BEN YAIYA Jijel.
- **June 2015**: Master's degree in architecture, Option Architecture, Forms, Ambiances and sustainable development, Department of Architecture - University of Mohammed KHIDER Biskra.

Professional teaching skills (subjects taught etc.)

- **Professional References:**

- **2010-2011**: Part-time lecturer in the architecture department at the University of Biskra.
- **2013-2015**: Part-time lecturer in the architecture department at the University of Jijel.
- **November 2015 has** permanent **Today**: Teacher university AtDepartment of Architecture at the University of Jijel.

- **Scientific references: -**Participation in seminars and conferences
- **Educational References:**

- Project 1 and 2 (L1) LMD system.
- Project 1 Master1 option: Architecture and urban environment.
- Practical work Modeling in architecture and urban planning Master 2.
- Course History and Housing Policy Master 1 option: Architecture, Housing and Sustainability.
- TD History and housing policy Master 1 option: Architecture, Housing and sustainability.
- Environmental Protection and Sustainable Development Course Master 1 option: Architecture, Housing and Sustainability.
- TD Environmental Protection and Sustainable Development Master 1 option: Architecture, Housing and Sustainability.

Short Curriculum Vitae

Name and surname: BOUKETTA Samira m.
Hireche Date and place of birth: 11/23/1984 - Jijel
Email and telephone:samirabouketta@gmail.com,
0552708615 Grade: MAA
Establishment or institution of attachment: Mohammed Seddik BENYAHIA-Jijel University

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

State architect diploma, Architecture option, University of Jijel. 2007

Master's degree, specializing in bioclimatic architecture, University of Constantine. 2011

Professional teaching skills (subjects taught etc.)

2011-2015: Permanent teacher (subject taught: workshop 2, Project 3/4, HA (courses and tutorials), HCA1 (courses and tutorials), HCA 2 (courses and tutorials), project theory (courses), master 01 course).

2012-2018: Project supervision and final year dissertation (Master 2).

Short Curriculum Vitae

Name and surname: BOURAOUI Riad
Date and place of birth: 04/05/01966
Email and telephone:bouraoui.r@gmail.com
0772111857
Grade: Assistant Professor "A"
Establishment or institution of attachment: Mohammed Seddik BENYAHIA-Jijel University

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

- State Architect / June 1990 / Institute of Architecture and Urban Planning of Constantine (IAUC).
- Master's degree in architecture/ option: Architectural design and environment / University of Jijel/October 2006.

Professional teaching skills (subjects taught etc.)

- Teacher (classic system) of 1st, 2nd, 3rd and 4th year workshop modules, 2nd and 3rd year sociology modules and supervision of 5th year PFE.

- Teacher (LMD system) of project theory modules 3 and 4 in Bachelor's degree (L2), project theory 1 and 2 in Master's 1 (MAHD) and supervision of PFE / MFE in MASTER 2.

- Member of the Scientific Committee of the Architecture Department from 2009 to 2012.

- Head of the "Master Architecture, Habitat and Sustainability" specialty team in 2018.

Brief Curriculum Vitae

Name and first name: BOUTELLIS Toufik

Date and place of birth :02/28/1966 in El-Milia
garlic and telephone:boutellis.archi66@gmail.com – Tel. 07 93 95 40 59
Grade :MAA
Establishment or institution of attachment: Mohammed Seddik BENYAHIA-Jijel University
Diplomas obtained (graduation, post-graduation, etc.) with date and place of obtaining and specialty:

- June 1985: Baccalaureate in Mathematics – EL Kendy High School. Jijel – Algeria
- June 1990: State architect diploma – option: Bioclimatic architecture – (IAUC) Constantine.
- June 1992: Advanced Studies Diploma (DEA) – Specialty: “Nature, Environment, Societies” University of Caen – France.
- April 1995: Certificate of Advanced Studies in Architecture (CEAA) – ABC Group – Specialty: “Architecture, Atmosphere, Energy” – National School of Architecture Marseille Luminy – France.
- July 2007: Master's Degree - Option: Architecture; Specialty: "Architectural Design and Environment" - University of Jijel - Algeria
- In progress: Doctorate in science - 1st registration: November 2009 at the University of Jijel - Algeria - Option: architecture

Professional teaching skills (subjects taught etc.)

- Workshop: Project 5 and 6 (3rd year)
- Course: Project Theory 5 and 6 (3rd year)
- Course: heritage and regulations (Master 1-Second semester)

Short Curriculum Vitae

Name and surname: BOUTAOUTAOU Elarabi
Date and place of birth: 12/30/1982 in Guelma
Email and telephone:lboutaoutaou@yahoo.fr tel: 07 95 53 72
09 Grade: Assistant Professor A
Establishment or institution of attachment: Mohammed Seddik BENYAHIA-Jijel University
Diplomas obtained (graduation, post-graduation, etc.) with date and place of obtaining and specialty:

- State Engineer specializing in Civil Engineering, Option: Civil and Industrial Construction, Year 2006 at the University 08 May 45 Guelma

- Master's degree in Civil Engineering, Option Soil, Structure and Hydraulics, Year 2009 at the University 08 May 45 Guelma

Professional teaching skills (subjects taught etc.) Subjects taught:

- Construction Workshop 1 and 2 (Courses and Tutorials) in the Architecture Department.
- Structure (Courses and tutorials) in the Architecture department.

Short Curriculum Vitae

Name and surname: CHOUGUI Mohamed Lamine
Date and place of birth: January 22, 1984 in Constantine
Email and telephone:chouguilamine@yahoo.fr
0670170797
Grade: Assistant Professor A
Establishment or institution of attachment: Mohammed Seddik BENYAHIA-Jijel University
Diplomas obtained (graduation, post-graduation, etc.) with date and place of obtaining and specialty:
Building Installation Engineer 2007 University of Constantine
Master's degree in building thermal engineering and refrigeration 2010 University of

Constantine Professional teaching skills (subjects taught etc.) Physics, Building

Physics, Mathematics 1, Mathematics 2

Short Curriculum Vitae

Name and surname: DUHAIR Amir Abdelhamid
Mohamed Date and place of birth:18/12/1983. Rafah,
Palestine. Email and phone:
0550167582…**amirduhair@gmail.com** **Grade :**MAA
Establishment or institution of attachment: Mohammed Seddik BENYAHIA-Jijel University
Diplomas obtained (graduation, post-graduation, etc.) with date and place of obtaining and specialty:

- Engineer/Urban Technology Management. University of M'sila 2008
- Master's degree in architecture and urban planning. Hadj Lakhdar University of Batna. 2011
- Doctorate in Urban Planning. Mentouri University of Constantine 2018

Professional teaching skills (subjects taught etc.)

- CAD material. 2013-2020
- Urban Planning (classical system). 2011-2013
- Subject: Urban Geography. 2014
- Subject ARCHITECTURAL PHOTOGRAPHY 2017
- CAD Matter. 2017-2020
- 3D Matter 2016-2018
- GIS Material 2015-2018

Brief Curriculum Vitae

Name and surname: GRIMES Saïd
Date and place of birth: July 29, 1961
Email and telephone:grimess29@gmail.com ;grimes.said@univ-jijel.dz Tel: 0560944407
Grade: MC / B
Establishment or institution of attachment: Mohammed Seddik BENYAHIA-Jijel University;

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

- State architect, class of 1986,
- Master's degree in urban planning 2003, Mentouri University of Constantine
- Doctorate in Sustainable Urban Planning, Mohamed Seddik Benyahia University of Jijel.

Professional teaching skills (subjects taught etc.)

- Workshop subject: 2nd, 3rd and 4th year (classic system).
- Subject Analytical Geometry 1st year, (classical system).
- Subject: Architectural Programming Techniques: Master 1 (LMD system).
- Project subject: 3rd year Bachelor's degree and Master 1, (LMD system).
- Supervision of several projects and final dissertations for obtaining the diploma of Architect (Classical System) and Master in Architecture (LMD system).
- Urban and Architectural Programming subject: 1st year, (LMD system).
- Supervision of several projects and final dissertations for obtaining the diploma of Architect (Classical System) and Master in Architecture (LMD system). Broadly: Project (all levels), Sustainable urban planning, Urban and architectural programming techniques, Eco design and HQE, Urban design, Ecotourism.

Member of the scientific committee of the architecture department and of the scientific council of the faculty of engineering sciences

Brief Curriculum Vitae First

and last name: Gherzouli marries BenhassineChahrazed
Date and place of birth :27-10-1973 in Sétif
Email and telephone:gherzoulic@yahoo.com / 0552686612
Grade : Lecturer A
Establishment or institution of attachment: Mohammed Seddik BENYAHIA-Jijel University
Diplomas obtained (graduation, post-graduation, etc.) with date and place of obtaining and specialty:
- Ecology and Environment Engineering, Ferhat Abbes Sétif University - Master's in Sustainable Territorial Planning, Lyon 3 University. 2005 - Master's in Environment and Landscape, Toulouse le Mirail University. 2006 - Doctorate in Geography and Planning, Toulouse le Mirail University. 2013

Professional teaching skills (subjectstaught etc.)
- Built environments and sustainable environment (Course + tutorials)
- High Environmental Quality and New Construction Techniques (Course)
- New construction techniquesenvironmental (Course)
- Geographic Information System (Practical work)

Brief Curriculum Vitae

Name and first name: GUESSOUM Warda
Date and place of birth :07/28/1982 in Souk Ahras
Email and telephone:guessoumwarda@gmail.com / 0667976879
Grade : Class A Assistant Professor
Establishment or institution of attachment: Mohammed Seddik BENYAHIA-Jijel University

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

- State engineering diploma in urban technology management: - Option: city management. - University of Oum El Bouaghi Year: 2006
- Master's degree in architecture and urban planning: - Option: city and environment. -University University of Oum El BouaghiYear : 2012.

Professional teaching skills (subjects taught etc.)

Subjects taught:
- Urban project (3rd year GTU)
- Workshop (1st year GTU)
- Workshop (2nd year urban planning)
- Workshop (4th year GTU)
- Urban hydraulics and urban planning (5th year architecture)
- Urban sociology and psychology of space 1 and 2 (2nd Year Architecture)
- Geography of housing (2nd year architecture)
- Cartography and topography (2nd Year Architecture)
- Supervision of final year dissertations specializing in urban technology management

Brief Curriculum Vitae

Name and first name: HADEF, MEZOUED Hayette
Date and place of birth : July 13, 1978 in Skikda
Email and telephone:hayette_urbaniste@yahoo.fr / 0776560856
Grade : Class B lecturer
Establishment or institution of attachment: Mohammed Seddik BENYAHIA-Jijel University

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

- Architectural Engineering, 2001, Mentouri University of Constantine. - Master's degree (option: urban planning), 2004, Mentouri University of Constantine. - Doctorate in Science (option: urban planning), 2013, Salah BOUBNIDER University, Constantine.

Professional teaching skills (subjects taught etc.)

- Critical History of Architecture (Course + Tutorials)
- Codified architectural drawing
- Project 1, 2; master's in architecture and heritage
- Project 1,2; master's in architecture and urban environment
- Project 3,4; master's in architecture and urban environment
- Project theory; master's in urban environment architecture (course)
- Environmental protection and sustainable development (Course + tutorials)
- Theory of sustainable urban planning (Course + tutorials)

Brief Curriculum Vitae

Name and first name: HALLOUFI Ouahid
Date and place of birth: May 11, 1984
Email and telephone:ywahid@yahoo.fr – 0795 014 467
Grade: Assistant Professor Class A
Establishment or institution of attachment: Mohammed Seddik BENYAHIA-Jijel University

Diplomas obtained

State engineer diploma in Climate Engineering obtained in 2007 at the University of Mentouri Constantine, specializing in Climate Engineering.
Master's degree in Climate Engineering obtained in 2010 at the University of Mentouri Constantine, specializing in Building Thermal and Refrigeration.

professional teaching skills

2010--2011: University of Constantine. Visiting lecturer, “fluid mechanics” 2nd year ST, technical sciences department.
2010--2011: University of Constantine. Visiting lecturer, “urban hydraulics” 2nd year urban planning, National Institute of Architecture.
2011--2012: University of Constantine Visiting lecturer, “heat transfer, thermodynamics, and fluid mechanics” (Tr1st year TR, Transport Engineering department.
2011--2012: University of Constantine. Visiting lecturer, “fluid mechanics” 2nd year ST, technical sciences department.
2012--2013: Applied Research Unit in Renewable Energy Ghardaïa Permanent researcher, (Research associate) “solar and bioclimatic architecture.

Brief Curriculum Vitae

Name and first name: HALLALIbtissem
Date and place of birth: 11/04/1979
Email and telephone:h.ibtissem@gmail.com
0795648706Grade: Assistant Professor "A"
Establishment or institution of attachment: Mohammed Seddik BENYAHIA-Jijel University
Diplomas obtained (graduation, post-graduation, etc.) with date and place of obtaining and specialty:
- State Architect / June 2002 / Sétif Institute of Architecture.
- Master's degree in architecture / option: Housing and urban environment / University of Constantine / April 2008.

Professional teaching skills (subjects taught etc.)

- Teacher (classic system) of 3rd and 4th year workshop modules and supervision of 5th year PFE.

- Teacher (LMD) of Project 1 and 2 modules in Bachelor's degree (L1), Project 1 and 2 in Master 1 (MAHD) and supervision of PFE / MFE of MASTER 2.

Brief Curriculum Vitae

Name and first name: KHELFALLAH Schahrazed
Date and place of birth: 06/09/1978 Chlef/ Algeria
Email:khelfallah.s@gmail.com Tel: 0560149402
Grade: MAA
Establishment or institution of attachment: Mohamed Seddik BENYAHIA University. JIJEL

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

1996: Baccalaureate / Exact Sciences Series / Mention: Fairly Good / El Kendy High School
2001: Obtaining the Architect's diploma / Ferhat Abbas University / Sétif
2008: Obtaining a master's degree in architecture / Option: Architectural design and environment / Mention: good / University "Abdelhak BENHAMMOUDA", Jijel

Professional teaching skills (subjects taught etc.):

- Classic system:
  - Workshop II/ Workshop III/
  - Workshop IV Supervision: 17
  - PFE and MFE
- LMD System:
  - Workshop II/ Workshop III/ M1 Heritage
  - Workshop L2 Internship/ M1 Heritage
  - Internship
  - Course: Project theory/M1 heritage
  - Course and tutorials:
    - Sustainable Architecture Theory / M2-S2 MAEU
    - Constructions, Ambiances and Durabilities / M1-S2 MAEU
  - Supervision: 05 MFE

Brief Curriculum Vitae

Name and surname: KIHAL Hanane
Date and place of birth: 01/30/1975 in Jijel.
Email and telephone:kihal.han@gmail.com**/ 07 98934128**
Grade: Assistant lecturer class A
Establishment or institution of attachment: Mohammed Seddik BENYAHIA-Jijel University
Diplomas obtained (graduation, post-graduation, etc.) with date and place of obtaining and specialty:
- State architect diploma, class of 1997, Ferhat ABBAS University of Sétif - Master's degree in architecture (option: History and society) 2005, Ferhat ABBAS University of Sétif

Professional teaching skills (subjects taught etc.)
- ***Sociology, course - Sociology of housing, course***
- ***Critical history of architecture 1 and 2 (classical system) course and tutorials***
- ***Critical History of Architecture 5 and History of Architecture (LMD system), lectures and tutorials***
- ***Theory of architecture, courses and tutorials***
- ***Workshop 1, 2, 3 and 5 (classic system)***
- ***Project 3 and 4 (LMD system)***
- ***PFE and MFE supervision***

Short Curriculum Vitae

Name and first name: LAOUAR Djenette
Date and place of birth: 05/07/1977 in Mila
Email and telephone:laouar_djenette@yahoo.fr / tel: 0772043127 Grade: Assistant Professor class A
Establishment or institution of attachment: Mohammed Seddik BENYAHIA-Jijel University

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

- **ARCHITECT Diploma**:
  Option: ARCHITECTURE.
  Mentouri University: Faculty of Earth Sciences, Geography and Regional Planning, Constantine.
  Year: 2001.
- **Master's Degree in Architecture**:
  Option: Urban Housing.
  Institute of Architecture and Earth Sciences, Ferhat Abbas Sétif University. Year: 2008.

Professional teaching skills (subjects taught etc.) Subjects taught:

- TD HCA (1st Year Architecture): 2012-2014
- Project (1st Year Architecture): 2012-2014
- Project (Master 1, Architecture and Technology): 2015-2017
- Project Theory (Master 1, Architecture and Technology): 2015-2017
- Architectural programming technique (M1 and M2, Architecture and Technology): 2016-2018

Brief Curriculum Vitae

Name and surname: LATLI Azzedine
Date and place of birth: 11/16/1968 in Sidi Abdelaziz – Jijel
Email and telephone:azer_lati@yahoo.fr **/ tel: 07 74 61 38**
98 Grade: /
Establishment or institution of attachment: Mohammed Seddik BENYAHIA-Jijel University

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

- **Baccalaureate 1987**
- **State engineer**in Regional Planning / 1993 University of Constantine
- **Master**in Regional Planning / 2015 University of Constantine (thesis on flood risks and urban growth in Taher – Jijel)

Professional teaching skills (subjects taught etc.)

- - poststate engineer / company for technical and architectural studies SETA - Jijel period 1999 – 2000
- Consultant to BETs for risk mapping in urban planning studies (POS, PDAU and ZET)
- post state engineer / URBAJ - jijel period 2007 – 2008
- Post-engineer in housing and urban planning / the wilaya of Jijel (DAL) period 2008 – 2016, responsible for monitoring development projects
- Post principal engineer of housing and urban planning / the wilaya of Jijel (DAL) period 2016 – to date, responsible for monitoring development projects
- Part-time lecturer for the years 2018/2019 and 2019/2020 to teach the urban planning code module at the University of Jijel.

Brief Curriculum Vitae

Name and first name: LEHTIHET Mohammed Chérif
Date and place of birth :07/11/1962 in JIJEL. Algeria Mail
and telephone:**c_lehtihet@yahoo.fr**0662787826 Grade:
MAA
Establishment or institution of attachment: Mohammed Seddik BENYAHIA-
Jijel University
Diplomas obtained (graduation, post-graduation, etc.) with date and place of obtaining and specialty:

- State architect. June 1985. University of Constantine.
- Master's degree in real estate management, construction and development. Business School. October 1994. Marseille. France.
- Master's degree in architecture. Specializing in architecture and the environment. June 2007. Mohamed Seddik BENYAHIA.JIJEL University.

Professional teaching skills (subjects taught etc.)

- Project material 3/4,5/6.
- Critical history of architecture (1 and 2).
- Built environment and sustainable development (Master's degree)1Architecture and urban environment).
- Supervision of PFE/MFE for obtaining the architect diploma (Classic) Master 2 (LMD)
- Member of the scientific committee of the architecture department.

Brief Curriculum Vitae

Name and first name: MEBROUK Fateh
Date and place of birth: 03/05/1964 in Jijel
Email and telephone:mebrouk06@yahoo.fr **05 55 88 22 96**
Grade: Professor
Establishment or institution of attachment: Mohamed Seddik BENYAHIA University – JIJEL -
Diplomas obtained (graduation, post-graduation, etc.) with date and place of obtaining and specialty:
Titles and Diplomas:

- - DES (Diploma of Higher Studies), Option: Sedimentary Sets, 1988, USTHB (University of Sciences and Technologies, Houari Boumediène), Algiers, Algeria
- - MASTER in Geology, Option: Paleontology, 1993, Institute of Earth Sciences, University of Oran Es-Senia, Algeria
- - STATE DOCTORATE in Geology, option: Paleontology-Stratigraphy, 2011, University of Oran Es-Senia

Professional teaching skills (subjects taught etc.) (In cycle: Engineering, LMD, Magister and Doctorate)

- General Geology: course
- Stratigraphy: course
- Paleontology: course
- Sedimentology: course
- Historical Geology: course
- Geology of Algeria: course
- Sedimentary rocks: course
- Bibliographic research: course
- Several internships and outings on geological sites
- Supervision of masters and LMD doctorates in sedimentary geology

Brief Curriculum Vitae

Name and first name: OUARI Mounia
Date and place of birth: 11/20/1976 in Sétif
Email and telephone:monilena2@gmail.com / tel:
0561239944 Grade: Assistant Professor class A
Establishment or institution of attachment: Mohammed Seddik BENYAHIA-Jijel University

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

- **Architect's diploma**:
  - Option: Architecture.
  - FARHAT ABBAS University - Sétif
  - Year: 1995/2000

- **Master's Degree:**
  - Sector: architecture
  - Option: housing.
  - FARHAT ABBAS University - Sétif
  - Year: 2007/2011

Professional teaching skills (subjects taught etc.) Subjects taught:

- Project 3 and 4 (2nd Year): 2011-2018
- Project Theory 3 and 4 (2nd Year): 2011-2015
- Master 1 project theory, habitat option: 2015-2016
- Project 1 and 2 master 1, housing option: 2016-2017
- DCA (1st Year Architecture): 2012

Short Curriculum Vitae

Name and surname: ROUIDI Tarik
Date and place of birth :01/10/1978 in central Algiers
Email and telephone:archirouidi@gmail.com Mobile: 213 560 03 00 04
Grade : Assistant Master “A”
Establishment or institution of attachment: Mohammed Seddik BENYAHIA-
Jijel University.

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

- **June 2001**: State Diploma in Architecture, Architecture and Technology Option, from the Polytechnic School of Architecture and Urban Planning “EPAU d"Alger”.
- **July 2011**: Master's degree in architecture, Housing and urban environment option, Department of Architecture and Urban Planning - Faculty of Earth Sciences - University of Constantine.

Professional teaching skills (subjects taught etc.)

- **Professional References:**

- **2002-2003**: Head of monitoring section at the military infrastructure service of the El Harrache equipment application school, Algiers.
- **05/16/2007**: Foundation of an architectural design office “ARCHIWORLD”.
- **2003-2011**: Part-time lecturer in the architecture department at the University of Jijel.
- **2011 has Today**: Teacher university permanentAt departmentof architecture at the University of Jijel.
- **06/30/2014**: Certified and sworn architectural expert before the courts.
- **02/15/2015 to 07/12/2016**: Interim Head of the Architecture Department at the University of Jijel.
- **07/13/2016 to today:**Head of the Department of Architecture at the University of Jijel.

- **Scientific references: -**Participation in seminars and conferences
- **Educational References:**

- 1st year workshop, classic system.
- 2nd year workshop, classic system.
- 4th year workshop, classic system.
- 5th year PFE supervision, classic system.
- Project Theory 1 and 2 (L1) LMD system.
- Project 1 and 2 (L1) LMD system.
- Project 3 and 4 Master Architecture and Technology (MFE/PFE supervision) LMD system.
- Project 3 and 4 Master Architecture, Habitat and Sustainability (Supervision) LMD system.
- Master's research dissertation in Architecture, Housing and Sustainability (Supervision) LMD system.

Short Curriculum Vitae

Name and surname: SAFRI Saïd
Date and place of birth : April 20, 1964 in Jijel
Email and telephone:nouredine.safri@yahoo.fr / 07 93 89 36 24
Grade : Assistant Professor “A”
Establishment or institution of attachment: Mohammed Seddik BENYAHIA-Jijel University

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

- Master's degree in architecture, option: urban planning, city and urban project (VPU) - Department of architecture and urban planning - Faculty of earth sciences, geography and regional planning - February 2008 - Mentouri University of Constantine.
- Master's degree in housing management, urban planning and urban policy (MHUPV) - November 2004 - Euromed Marseille Management School.
- Specialized Postgraduate (PGS) in City Management – October 1997 - National School of Administration (ENA) Algiers.
- State Architect – March 1990 - Institute of Architecture and Urban Planning, University of Constantine.

Professional teaching skills (subjects taught etc.)

- Assistant Professor A at the Department of Architecture - Faculty of Science and Technology - University of Jijel - Since 2012 - Subjects taught: Project in Bachelor's and Master's degrees in Architecture and Environment (MAEU), Project Management in Master's degrees in Architecture and Technology (MAT) - Supervision of MFE & PFE (Project 3 & 4, MAEU).
- Associate Researcher at the City and Health Laboratory - UC3 Constantine – From 2013 to 2015.
- Assistant Professor B at the Department of Architecture - Faculty of Science and Technology - University of Jijel - From 2008 to 2012 - Subjects taught: Architecture 3 & 4 in Classical System, Bachelor's Project - Supervision of PFE (Architecture 5, Classical System).

Short Curriculum Vitae

Name and surname: SMAKDJI m. SEMAKDJI NAFILA
Date and place of birth:01-07-1974 in Constantine
Email and telephone:nafila_smakdji@yahoo.fr / 05 52 16 29 13
Grade : Lecturer B
Establishment or institution of attachment: Mohammed Seddik BENYAHIA-Jijel University

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

- Engineering in climate engineering, 1998, Constantine University1 - Master's degree in climate engineering (option: Building thermal and refrigeration), 2002, Constantine University

1. - Doctorate in science, climate engineering (option: Building thermal and refrigeration), 2014, Constantine 1 University.

Professional teaching skills (subjects taught etc.)

- Mathematical(Course + tutorials)
- Applied physics and building physics. (Lectures + tutorials)
- Equipment 1 and equipment 2 (Course + tutorials)
- Construction2 (Course + Tutorials)
- Special equipment (Course + tutorials)
- Hydrology (Course + Tutorials).
- Desalination and renewable energies (Course + tutorials).

Short Curriculum Vitae

Name and surname: SOUKEHAL Boudjemaa
Date and place of birth: 05/17/1964 in Beni-Guecha, Ferdjioua, Mila Email and telephone:Salim_mila@yahoo.fr 0772761679
Grade: Lecturer class "B"
Establishment or institution of attachment: Mohammed Seddik BENYAHIA-Jijel University
Diplomas obtained (graduation, post-graduation, etc.) with date and place of obtaining and specialty:

- Postgraduate Diploma in Planning (DES).
- Master's degree in Urban Planning.
- Doctorate in Urban Planning.

Professional teaching skills (subjects taught etc.)

- History of Urban Theories (HTU 1,2),
- Spatial Planning and Development (PAS),
- Urban Engineering (1,2),
- Cartography and Topography

Short Curriculum Vitae

Name and surname: TEBBOUCHE Hocine
Date and place of birth: September 24, 1961 in Texenna, Wilaya of Jijel
Mail and telephone: Tel: +213 (0) 772 957 672 E-mail :tebbouche.h@gmail.com
Grade: Assistant Professor Class "A"
Establishment or institution of attachment: Mohammed Seddik BENYAHIA-Jijel University

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

November 2010: Master's Degree - Option: Architecture - Specialty: Architectural Design and Environment - University of Jijel, Algeria - Mention: Good.

June 1986: State architect diploma - Institute of Architecture, Urban Planning and Construction (IAUC), Constantine, Algeria.

Professional teaching skills (subjects taught etc.)

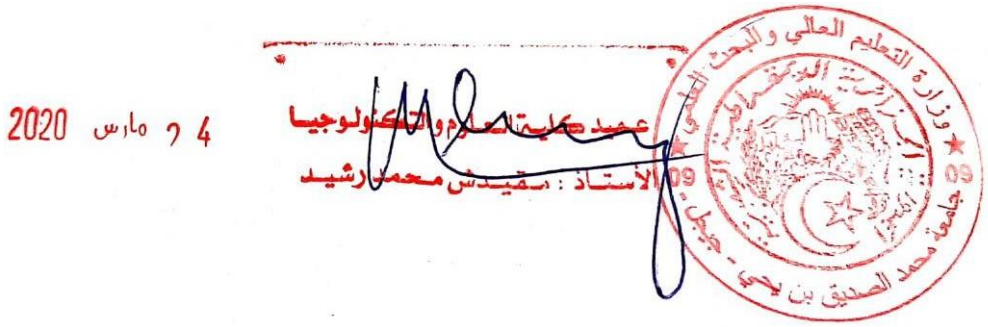
- Workshop subject: 2nd and 4th year, (classic system).
- Subject Photography in architecture: 2nd year, (LMD system).
- Project Theory Subject: Master 1, (LMD system).
- Project subject: 2nd, 3rd and Master 1, (LMD system).
- Supervision of several projects and final dissertations for obtaining the diploma of Architect (Classical System) and Master in Architecture (LMD system).

VI- Opinions and Visas of the Administrative and Consultative Bodies

Degree title: Urban technology management/Specialty: city management.

Department Head + Domain Team Leader	
Date and visa	Date and visa
Date et visa رئيس قسم الهندسة المعمارية رويسي طارق 23 MARS 2020	Date et visa Pr A. Bouchaïb 23 MARS 2020
Dean of the Faculty (or Director of the Institute)	

Date and visa:



Head of university establishment

Date and visa

VII- Notice and Visa of the Regional Conference

(Only in the final version sent to the MESRS)

VIII- Opinion and Visa of the National Educational Committee of the Domain

(Only in the final version sent to the MESRS)