### **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.JIJEL University	Faculty of Science and Technology	Architecture

Domain	Sector	Speciality
(Domaine AUMV) Architecture, Urban Planning And City Trades	Urban Technology Management	Urban engineering

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I – License Identity Card

1-Location of training:Mohamed Seddik Benyahia University of Jijel Faculty of Science and Technology Department of Architecture

**References:** 

### REPUBLIQUE ALGERIENNE DEMOCRATIQUE ET POPULAIRE

### MINISTERE DE L'ENSEIGNEMENT SUPERIEUR ET DE LA RECHERCHE SCIENTIFIQUE Arrêté n443 du 18 JUL. 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 Journada 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.

Le Ministre de l'enseignement supérieur et de la recherchescientifique



### 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 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,
- Design offices in architecture and urban studies.

### International partners:

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

### 3. Context and objectives of the training

### HAS-Organization general training: project position((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- Goals of training

After completing the common core curriculum, which is made up of two semesters corresponding to the first year of L1, it provides the opportunity to pursue courses in two professional degrees in the Urban Technology Management sector, including Urban Engineering.

The main objective of the Urban Engineering Degree is to train students capable of bringing a multidisciplinary perspective to the multi-varied challenges of the city.

The professional training in Urban Engineering offers students an education that allows them to master the technical aspects of this discipline by integrating them into a broader field, that of the urban context, developments and services. The academic courses of the degree are organized around 4 main axes:

- One axis: City management and practices.
- One axis: techniques and sciences for engineers;
- One axis: urban planning and environment;
- One axis: design and construction;

### C- Profiles and skills targeted (Required field):

Through its teachings focused on the four main axes (Management and practices of the city, urban techniques and engineering sciences, urban planning and environment, design and construction and human sciences), the Urban Engineering profile constitutes the main basis of a more in-depth discipline. And which also prepares for integration into professional masters in city professions, and more particularly in its technical-conceptual and managerial part.

Graduates in urban engineering will acquire, during their training, the knowledge and skills that will enable them to participate in the professional environment in the production and management of urban space, through:

Project management throughout the design, construction and development process in the field of urban engineering within the various private and public professional sectors.

They work in the following areas:

- Planning, urban planning and construction,
- Various infrastructures and networks,
- The environment and transport.

### D- Potentials regional and national employability

The professional degree in urban engineering, which welcomes students from the first year (Common Core) in Urban Management and Technology, complements the other training profiles provided by GTU establishments. It has two main vocations:

- It prepares the student to pursue higher education; for those who wish to join a professional or academic master's degree in the urban field.
- The diversity of teaching provided by the degree allows graduates to accomplish multiple professional tasks:
- At the level of local authorities and technical administrations: they can carry out urban project management tasks and coordinate between the different stakeholders.
- In design offices: they assist in the development of urban development plans. They carry out surveys and technical field work.
- On site, they monitor construction sites and various networks and coordinate the various trades.

### E- Gateways to other specialties

The student who has obtained the bachelor's degree in GU can continue, subject to certain conditions (average, content of the acquired teaching units, etc.), studies preparing for all existing masters (academic or professional) in Urban Technology Management establishments.

Other students in the field (AUMV) can apply for the GU master's degree if there is compatibility.

### F- Expected performance indicators of the training

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 resources available for the specialty

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

Nom Prénom	Diplôme de spécialité	Grade	Spécialité	Type/Matière à enseigner	Emfrgement
AIDAT ADILA	Magistère	ΜΛΛ	Urbanisme	Cours / TD	AIPP
AMIRECHE HAMZA	Doctorat	Professeur	Aménagement	Cours / TD	
AOUICI AMINA	Magistère	МЛА	Architecture	Cours / TD	AD
BABA RIMA	Magistère	MAA	Architecture	Cours / TD	2 th
BENKECHKECHE GHOFRANE	Doctorat es- sciences	МСВ	Génie Civil	Cours / TD	UN Def
BENZAID RIAD	Doctorat es- sciences	MC	Génie Civil	Cours / TD	Dugui
BLIBLI MUSTAPHA	Magistère	MAA	Architecture	Cours / TD	43
BOUCHAIR AMMAR	Doctorat	Professeur	Architecture	Cours / TD	P
BOUCHEFRA HASSINA	Magistère	МСВ	Aménagement	Cours / TD	M.
BOUHIDEL NOUR EL HOUDA	Magistère	МАА	Architecture	Cours / TD	WHt.
BOUKETTA SAMIRA	Magistère	МАА	Architecture	Cours / TD	P
BOURAOUI RIAD	Magistère	МАА	Architecture	Cours / TD	A
BOUTELLIS TOUFIK	Magistère	МАА	Architecture	Cours / TD	A.
BOUTAOUTAOU ELARABI	Magistère	МАА	Génie Civil	Cours / TD	per.
CHOUGUI MOHAMED LAMINE	Magistère	МАА	Génie climatique	Cours / TD	char
DUHAIR AMIR	Doctorat es-sciences	МСВ	GTU	Cours / TD	Guere
GRIMES SAID	Doctorat es-sciences	МСВ	Urbanisme	Cours / TD	81185'
GHERZOULI SCHAHRAZED	Doctorat 3eme cycle	МСВ	Aménagement	Cours / TD	Str.
GUESSOUM WARDA	Magistère	МАА	GTU	Cours / TD (	Chie
HADEF HAYET	Doctorat es-sciences	МСВ	Urbanisme	Cours / TD	mf.
HALOUFI WAHID	Magistère	MAA	Génie climatique	Cours / TD (	Hele
HALLAL IBTISSEM	Magistère	MAA	Architecture	Cours / TD	forth
KHELFALLAH SCHAHRAZED	Magistère	MAA	Architecture	Cours / TD	fint

Nem Présons	Diplôme de spécialité	Grade	Spécialité	Type/Matière à enseigner	Emargement
MOHDEB Rachid	Doctorat 3cme cycle	MCA	Aménagement	Cours /TD	111
LATU AZZEDDINE	Magistère	1	Aménagemen	Cours et TD	fett
KEDJA Fatch	Architecte	/	Architecture	TD	AP
WITES Rachid	Géomètre Expert	i	Topographie/ Géodesie	TD	LIC

					1
KIHAL HANANE	Magistère	МАА	Architecture	Cours / TD	In
LAOUAR DJENETTE	Magistère	МАА	Architecture	Cours / TD	H
LEHTIHET MOHAMED CHERIF	Doctoral es-sciences	мсв	Architecture	Cours / TD	T
MEBROUK FATAH	Doctorat	Professeur	Géologie	Cours / TD	1.12
OUARI MOUNIA	Magistère	МАА	Architecture	Cours / TD	H
ROUIDI TARIK	Magistère	МАА	Architecture	Cours / TD	-
SAFRI SAID	Magistère	МАА	Urbanisme	Cours / TD	c+
SMAKDJI NAFILA	Doctorat es-sciences	МСВ	Génie climatique	Cours / TD	47
SOUKEHAL BOUDJEMAA	Doctorat es-sciences	мсв	Aménagement	Cours / TD	A.
TEBBOUCHE HOCINE	Magistère	МАА	Architecture	Cours / TD	Effe

Department



Date and visa



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Institution: Mohamed Seddik Benyahia University of Jijel

Title/ Urban

- **C.** External training support team
- **D.** Overall summary of human resources:

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

Department

Faculty

Date and visa



### 5. Material resources available

### A. Educational Laboratories and Equipment: Equipment sheet

Existing teaching methods for the practical work of the planned training (1 sheet per laboratory)

Titled     of     Concrete and materials					
labo	ratory:				
No.	Equipment title	Number	Observations		
01	Concrete aerometer	OI			
02	Shock device	01			
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 of determination module	01			
	of elasticity				
24	Device of measure of there variation	01			

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	linear		
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	Vibrator has concrete And stabilizer	01	Broken-down
	electric		
34	Bitumen viscometer	02	
35	Device for measuring the bending of	01	
	mortar prisms		
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	

	Title of the laboratory:	Topography			
No.	Equipment title		Nu	umber	Observations
01	RTA 4 device w	ith tripods	05	5	
02	KOS device with tripods		06	6	
03	KR 1 camera wi	th tripods	04	ŀ	
04	RDS device		03	}	
05	Compass		04	ŀ	
06	Chain of 20		02	2	
07	20m chain with	ribbon	05	5	
08	Plane wire		19	)	

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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	

Lab	oratory title				
	Soil mechanics				
No.	Equipment title		Number	Observations	
01	Electric stirrer fo	r sedimentometer	06		
02	Mechanical agita	ator for equivalent of	04		
	sand				
03	Odometer device	e	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		

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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	10	
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	14	
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	01	
	CBR and Proctor		
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 t	itle:	Environmental simulatio	n					
Ref	Quantity designat	ion	quantit	obs.				
ES13 35	DIGITAL LUXMET 2000 points LCD, 40a 400000 lux in s ±3% of reading, Ho or footcandle disp shutdown, Resoluti rigid	<b>y</b> 01						
ES13 57	DIGITAL SOUND I 2000-count LCD Measuring range 3 C, Slow or fast mod Max function, Max Analog output for re	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 connection Analog output for recorder, Supplied with case						
TOD 3	LEICA RANGEFIN Range from 0.04 technology, Accura Multifunction foldin volume min max fu angle calculation, A keyboard and 4-line	01						
ES13 67	DIGITAL POCKET	HYGROMETER	01					
M07	ANEMOMETER W With propeller ser 45m/s - from 0 to connection, Max te HOLD, Comes with	01						
ES39	1000° INFRARED	PYROMETER	01					

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	With laser sight, Temperature range -50 / 1000° C,		
	Target/distance ratio 50/1, Automatic hold function,		
	Min/max/difavg function, High alarm		
	and low, Adjustable emissivity, Delivered in a hard case		
RA12	RING PYRANOMETER	01	
	10µV(W/M²), ISO9060 Class 1, Response time: <28ms		
	Ring diameter: 570 mm, Ring height: 54 mm, Base diameter: 300 mm, Weight: 0.90 kg + ring 5.90 kg Typical sensitivity		
	Impedance		
	Measuring range		
	Operating temperature		
	Replaceable cartridge for silica del crystalsReducing		
	the formation of condensation inside the sensor		
	(autonomy: 2 to 6 months)		
	Compliance: ISO9060/recommendation		
	WMO		
	-		

### B- Internship and in-company training sites:

Internship location	Number of students	Duration of the internship (days)
"Port of DjenDjen" experimental site	10	10
"Rough terrain" experimental site	10	10
"Penetrating Highway" experimental site	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

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

Institution: Mohamed Seddik Benyahia University of Jijel Academic year: 2020-2021 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 rooms for students to carry out work, equipped with the following equipment:

### **3M VIDEO PROJECTOR:**3 Units

- Interactive video projector with stylus and remote control
- Arm with 2x20 watt folding speakers
- -Video projector control box and connection of other peripherals plus cabling
- Workspace tablet and software

### <u>SMARTCLASS+ Multimedia Equipment Smart Class Teacher + LAD:</u> 3 Units Multimedia Room Control Station with KVM Boxes. Control Solution

software, 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 interfaceNAS server with 4TB HDD Dimensions (WxDxH): 9.4 cm x 20.3 cm x 14.1 cm Processor: Marvell 1 GHz Hard Drive: 2 x 2TB removable Serial ATA-300 HP Pro 3500 Teacher PC Intel J7-3470 processor (3.20Ghz, 6Mb) HDD: 1TB 4GB DDR3 RAM **DVD RW burner** 21.5" LCD screen, optical mouse, USB, AZERTY bilingual AR/FR USB keyboards, Windows 8, 64 Bit professional

### EquipmentMultimediaStudentSmart Class\* MAD-T : 72Units

- 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: Video Transmission Network Hardware with USB Support

- SC2500 1x4 (VGA-USB interface for four stations)
- SC2500 RAL 6Pi (teacher station wiring)
- SC2500 CAT5- Network cable between Hub and interface
- HP Pro 3500 Student PC
- Intel i5-3470 Processor (3.20 GHz, 6 MB)
- HDD: 1TB
- 4GB DDR3 RAM
- DVD RW burner
- 20" LCD screen, USB optical mouse, QWERTY keyboards
- bilingual AR/FR USB, Windows 8, 64 Bit professional

II – Half-yearly teaching organization sheet

### Sector] Urban Technology Management [

### ] Amen and Al-Hajj معمارية, [south] معمارية, [south] ميدان [Al-Qaeda Al-Qaeda -Al-Qaeda Al-Qaeda 1st year Bachelor's degree: Urban Technology Management - Common core Semester 01] [Arabic Arabic]

#### Semester 1:

Teaching	Materials	Credits	ficient		Weekly volume	hourly		Half-yearly Hourly Volume (15 weeks)	Additional Workin consultation (15 weeks)	Assessme	nt method
	Titled		Coef	Course	TD	TP	Worksh op			Control Continuou s	Exam
EU FundamentalCredit s: 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%
	Seminar 1	2	1	1h30				10:30 p.m.	27:30	100%	
EU	Mathematics and statistics	4	2	1h30	1h30			45 hours	55h	40%	60%
MethodologicalCre dits: 9	Computer science	4	2			3 hours		45 hours	100h	100%	
Coefficients: 5	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%

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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	

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Title/ Urban

## Sector] Urban Technology Management [ معارية, [south] معارية [Al-Qaeda Al-Qaeda -Al-Qadr Al-Qaeda Al-Qaeda Al-Qaeda Al-Qaeda] 1st year Bachelor's degree: Urban Technology Management - Common core Semester 02] السداسي الثاني

### Semester 2:

	Materials	Credits	ent	Hourly volume weekly				Half-yearly	Additional Workin	Assessment method	
	Titled	Oreans	Coeffici	Course	TD	TP	Works hop	Volume (15 weeks)	consultation (15 weeks)	Control Continuou s	Exam
EU FundamentalCre dits: 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	Computer-aided design (CAD)	4	2			3 hours		45 hours	100h	100%	
edits: 9	Technology and materials construction	4	2	1h30		1h30		45 hours	77h30	40%	60%
Coefficients: 5	introduction to documents cartographic	1	1			1h30		10:30 p.m.	25h	100%	
EU Discovery Credits: 2	Urban legislation 2	1	1	1h30				10:30 p.m.	2h30		100%
Coefficients: 2	Practical training	1	1			1h30		10:30 p.m.	25h	100%	

Institution: Mohamed Seddik Benyahia University of Jijel

Degree title/ Urban engineering

Fransversal EU Credits: 1 Coefficients: 1	Language 2 - English 2	1	1	1h30				10:30 p.m.	2h30	100%
Fotal semester 2		30	17	9:00	3:00	7:30	6:00	382h30	570h	
Fotal semester 2		30	17	9:00 a.m.	3:00 a.m.	7:30 a.m.	6:00 a.m.	382h30	570h	

### Sector] Urban Technology Management [ المناسة مصارية, Al-Qaeda Al-Qaeda Al-Qaeda المناسة معارية, Al-Qaeda Al-Qaeda Mona [ إلسداسي الثالث [20 2nd year License: Urban Engineering - Semester

### Semester 3:

	Materials		Coefficient	Hourly volume weekly				Half-yearly Hourly	Additional Workin	Assessment method	
	Titled			Course	TD	TP	Works hop	Volume(15 weeks)	Consultation (15 weeks)	Continuo us Assessm ent	Exam
EU FundamentalCre dits: 18 Coefficients: 9	Workshop 03: Diagnosis of urban space and planning	8	4				6 a.m.	90 hours	200h	100%	
	VRD1 Urban roads	6	3	1h30		3 hours		67h30	127h30	40%	60%
	Topography 1	4	2	1h30		1h30		45 hours	77h30	40%	60%
EU	Meter	4	2	1h30	1h30			45 hours	55h	40%	60%
MethodologicalCr edits: 9	Remote sensing	4	2	1h30	1h30			45 hours	55h	40%	60%
Coefficients: 5	Information system geographic (GIS 1)	1	1	1h30				10:30 p.m.	2h30		100%
EU Discovery Credits: 2 Coefficients: 2	Soil mechanics 1	2	2	1h30	1h30			45 hours	5h	40%	60%

Institution: Mohamed Seddik Benyahia University of Jijel

Degree title/ Urban engineering

Transversal EU Credits: 1 Coefficients: 1	Language 3 - English3	1	1	1h30				10:30 p.m.	2h30	100%
Total semester 3		30	17	10:30 a.m.	4:30 a.m.	4:30 a.m.	6 a.m.	382h30	525h	

### Sector] Urban Technology Management [ مندسة Al-Qaeda Al-Qaeda Mona [ ميدان ميدان عندسة Al-Qaeda Al-Qaeda Al-Qaeda معنان ومهن المدينة[

### Semester 4:

] السداسي الرابع [2nd year License: Urban Engineering - Semester 04

	Materials			Hou wee	rly volu ekly	ume		Half-yearly Hourly	Additional Workin Consultation (15 weeks)	Assessment method	
	Titled	Credits	Coefficient	Course	TD	TP	Works hop	Volume(15 weeks)		Continuo us Assessm ent	Exam
EU EundamentalCre	Workshop4: Roads and water networks (Rehabilitation and development)	8	4				6 a.m.	90 hours	200h	100%	
dits: 18	VRD2 Water resources drinkable	6	3	1h30		3 hours		67h30	127h30	40%	60%
	Environmental Engineering	4	2	1h30	1h30			45 hours	55h	40%	60%
EU	Topography 2	1	1			1h30		10:30 p.m.	25h	100%	
MethodologicalCr edits: 9	Information system geographic (GIS2)	4	2			3 hours		45 hours	100h	100%	
Coefficients: 5	Internship or outings	4	2			3 hours		45 hours	100h	100%	
EU Discovery Credits: 2 Coefficients: 2	Soil mechanics 2	2	2	1h30	1h30			45 hours	5h	40%	60%

Institution: Mohamed Seddik Benyahia University of Jijel

Degree title/ Urban engineering

Transversal EU Credits: 1 Coefficients: 1	Foreign language (English4)	1	1	1h30				10:30 p.m.	2h30	100%
Total semester 4		30	17	6 a.m.	3	10:30	6 a.m.	382h30	615h	
					hours	a.m.				

### Sector] Urban Technology Management [ هندسة حضرية] تسبير Al-Qaeda Al-Qaeda Al-Qaeda ميدان ] هندسة The Lord ، عمران ومهن المدينية[

] السداسي الخامس [3rd year License: Urban Engineering - Semester 05]

### Semester 5:

	Materials			Hour weel	ly volu kly	me		Half-yearly	Additional Workin	Assessment method	
	Titled	Credits	Coefficient	Course	TD	TP	Works hop	Volume (15 weeks)	Consultation (15 weeks)	Continuo us Assessm ent	Exam
EU FundamentalCre	Workshop 5: Socio-economic analysis and environmental	8	4				6 a.m.	90 hours	200h	100%	
dits: 18 Coefficients: 9	VRD3: Urban hydraulics and sanitation	6	3	1h30		3 hours		67h30	127h30	40%	60%
	City and urban traffic	4	2	1h30	1h30			45 hours	55h	40%	60%
EU MethodologicalCr	Project management and Public markets	5	3	1h30	1h30			45 hours	80 hours	40%	60%
edits: 9 Coefficients: 5	Modeling and simulation (BIM)	4	2	1h30		1h30		45 hours	77h30	40%	60%
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	Urban green spaces	2	2	1h30	1h30			45 hours	5:00 a.m.	40%	60%

Institution: Mohamed Seddik Benyahia University of Jijel

Degree title/ Urban engineering

Total semester 5	30	17	9 a.m.	4:30	4:30	6 a.m.	360h	547h30	
				a.m.	a.m.				

### Sector] Urban Technology Management [ مدسة حضرية] تسبير Al-Qaeda Al-Qaeda Al-Qaeda Al-Qaeda Al-Qaeda Al-Qaeda Al-Qaeda Mona

] السداسي السادس (3rd year License: Urban Engineering - Semester 06

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### Semester: 06

	Materials	Cradita		Hourly weekl	/ volum y	e		Half-yearly	Additional Work in	Assessment method	
	Titled	Credits	Coefficient	Course	TD	TP	Works hop	Vorks Volume hop (15 weeks)	(15 weeks)	Continuo us Assessm ent	Exam
EU FundamentalCre	Professional project workshop	14	7				6 a.m.	90 hours	350h	100%	
dits: 18 Coefficients: 9	Major risks in urban environments	4	2	1h30	1h30			45 hours	55h	40%	60%
EU MethodologicalCr edits: 9 Coefficients: 5	Internship in a professional environment	9	5	2	1 weeks	5			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%

Institution: Mohamed Seddik Benyahia University of Jijel

Degree title/ Urban engineering

Total semester 6	30	17	4:30	3	0	6 a.m.	8:30 p.m.	637h30	
			a.m.	hours					l
# **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)

ED	LIFF	EMU		UET	Total
VH	0LI	LINO		OLI	rotar
Course	135h	67h30	45 hours	45 hours	292h30
TD	90 hours	10:30	10:30	-	135h
		p.m.	p.m.		
TP	-	135h	10:30	-	3:30 p.m.
			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	60%	200/	6.66%	3.33%	100%
For each EU	00%	30%	10%	<u> </u>	100%

**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.	112:30 p.m.	90 hours	90 hours	450h
TD	67h30	67h30	67h30	10:30 p.m.	225h
TP	3:30 p.m.	135h	-	-	292h30
Workshop	360h	-	-	-	360h
Personal Work	1575h	720h	5:30 p.m.	12:30 p.m.	2325h
Other (specify)	-	-	-	-	-
Total	11:17 p.m.	1035h	175h	125h	3652h30
Credits	72	36	7	5	120
% in credits	60%	30%	5.83%	4.16%	100%
For each EU	0070	0070	10	%	10070

Institution: Mohamed Seddik Benyahia University of Jijel Academic year: 2020-2021 Title/ Urban engineering\

Institution: Mohamed Seddik Benyahia University of Jijel Academic year: 2020-2021 Title/ Urban engineering\

# III. Detailed program by subject of the semesters

(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

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

# Content of the subject:

- 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% Exam 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

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

- 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 planning 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.

# **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

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 - Threedimensional 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.
- .Jean Bouyer, 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

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

# Content of the subject:

#### 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

Communication, signal, reception. Information Andcommunication. 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
- Mattelart Armand, 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

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 Development
  - 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

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

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

# Recommended prior knowledge

# Content of the subject:

- 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

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

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:

- 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 visit route.

#### 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

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% Exam 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 particular 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 and geomorphological 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

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

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 the services of:

- 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

Assimilation and initiation to writing.

## Recommended prior knowledge

#### Content of the subject:

English. Terminology. Vocabulary and text study. Writing

# Assessment method:100% exam

# **Bibliographic references**

To be defined by the teacher

Semester 3		
Teaching unit	EU. Fundamentals	
Matter	Workshop 03 :Diagnosis of space urban And	
	development	
Coefficient	4	
Credit	8	

This teaching is part of a methodological aim: it is about providing students with some tools of urban analysis seen from a spatial angle, necessary for understanding an intervention context (site of implantation, city plan, road layout, etc.), in order to identify and understand its urban and architectural characteristics and to discover its underlying models and structures (dimensions, function, distribution, construction and aesthetic systems)

# Recommended prior knowledge

Concepts of building design, the components of urban space: built spaces (any threedimensional object), unbuilt spaces (developed or not) and network spaces (linear surface, underground, overhead).

# Content of the subject:

#### **Theoretical courses:**

- Approaches and methods of urban analysis
- Urban analysis documents and tools
- Techniques and means of urban analysis

#### Workshop :

The content of the workshop exercises must be defined and specified by the teachers.

Assessment method: 100% Continuous assessment

**Bibliographic references:**To be defined by the teacher

Semester 3	
Teaching unit	EU. Fundamentals
Matter	VRD 1: Urban roads
Coefficient	3
Credit	6

Consideration of roads as an infrastructure (technical networks) requiring the implementation of geometric design and calculations.

This subject will allow students to:

- Stages of existing projects;
- Evolution of methods;
- Evolution of the organization;

Evolution of planning principles.

# Recommended prior knowledge

- Main characteristics of the urban road team;
- Urban analysis (land use or space consumption, organization, structure and configuration of urban textures, etc.);
- Interaction in 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: The road network.

- General information: classification and method of financing urban roads.
- Traffic;
- The extent and nature of the area served;
- The typology.
- Classification of routes.
- Elements of urban traffic studies.
- Traffic analysis;
- Probable evolution of the various modes of transport;
- Predictable traffic in urban areas.
- Earthworks and volume calculations.
- Soil classification;
- Calculation of cubic capacities;
- Execution of earthworks.
- Geometric characteristics of non-fast urban roads.
- The demarcation of the land;
- The land survey and measuring instruments;
- Identification of existing networks;
- Altimetric and planimetric connections.

- The layout of the tracks.
- Track profiles (longitudinal profiles, cross-sectional profiles);
- Recommendations for the plan layout;
- Roadways (composition of roadways, roadway calculation and roadway accessories);
- Sidewalks and pedestrian walkways;
- The crossroads;
- Parking;
- Special works.

## Chapter 2: General earthworks.

- Definition ;
- Technical constraints;
- Economic constraints;
- The abundance of lands;
- Land settlements;
- Slopes and embankments;
- Volume calculations;
- The interpretation ofresults.

# Chapter 3: Public lighting.

- Generalities: outdoor lighting, ambient lighting, lamps;
- Calculation methods and calculation assumptions;
- The calculation of sections;
- Exterior lighting;
- Interior lighting;
- The balance of powers;
- Grounding;
- Electrical equipment.

#### Chapter 4: The gas network.

- Design and implementation techniques.

#### Chapter 5: The telephone network.

- Design and implementation techniques

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

Bibliographic references: To be defined by the teachers in charge of the subject.

Semester 3	
Teaching unit	EU. Fundamentals
Matter	Topography 1
Coefficient	2
Credit	4

To provide the student with the basic concepts of topography and to teach him how to make topographic measurements, intended for the development of topographic plans in the execution of works in the field of urban engineering.

# Recommended prior knowledge

Physics, mathematics, computer science, geomorphology and soils.

# Content of the subject:

- Introduction
- General notions
- Geodesy
- Topography
- Shape of the Earth
- Projection system projections
- Geographic coordinates
- Orientation (The three Norths)
- Topography
- Notion on Faults and Errors.
- General information
- The mistakes
- The mistakes
- Statistical findings on direct measurements
- Distance measurement
- Generality
- Distance measuring instruments
- The staking
- Flat measurement
- Measurement accuracy
- Direct measurements
- Indirect length measurement
- Measuring angles
- General information
- Units of measurement of angles
- The theodolite

- Measurement of horizontal angles
- Measuring vertical angles

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

Bibliographic references: to be defined by the teachers responsible for the subject.

Semester 3	
Teaching unit	EU. Methodologies
Matter	Meter
Coefficient	2
Credit	4

The objective of this teaching unit is to provide the student with knowledge of the basic tools for establishing a preliminary estimate and a quote as well as knowledge of the different measurement procedures.

Knowledgeprerequisites:

This teaching unit requires essential prerequisites such as Construction Drawing and CAD.

# Content of the subject:

# 1. General notions

Definition and purpose of the quantity survey and preliminary quantity survey, the role of the quantity surveyor in construction, necessity and degree of precision of the evaluation of works, the quantity survey and preliminary quantity survey documents.

# 2. The acts of measurement and pre-measurement

Summary estimates, quantitative and cost estimates, units and rounding, attachments, work status.

# 3. Mathematical concepts necessary for establishing a preliminary estimate

- Measurement of lines (any triangles, circumference, arc of circle).
- Measurement of surfaces (planes, polyhedra, etc.).
- Classical volume measurement, three-level method, Simpson and Poncelet formulas.

# 4. Before measurement: earthworks for excavations of civil engineering structures

- Concept of land abundance.
- Preliminary measurement of excavations for foundations and various networks.
- Presentation of a road project (longitudinal profile and cross-section)
- Cut profiles and embankment profiles.
- Calculation of cubatures and earth movements.

# 5. Pre-measurement of masonry and concrete

# 6. Price study

Definition and purpose, price sub-details, calculation methods, diagram and presentation of price sub-details.

# Assessment method: Continuous assessment 40% Exam

# 60% Bibliographic references:

- Michel Manteau, "Building Measurement", 7th Edition, Eyrolles, 1990.
- Jena-Pierre Gousset, Jean-Claude Capdebielle, René Pralat, "The Measurement, CAD with Autocad Price Study", Editions Eyrolles, 2011.

Semester 3	
Teaching unit	EU. Methodologies
Matter	Remote sensing
Coefficient	2
Credit	4

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 the skills to synthesize and present work in several forms (map, photo, statistical processing, analysis, choice of graphic means, cartographic design and layout, etc.).

# Recommended prior knowledge

# Content of the subject:

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 method 40% continuous and 60% in exam

Bibliographic references: To be determined by the teaching team

Semester 3	
Teaching unit	EU. Methodological
Matter	Geographic Information Systems 1
Coefficient	1
Credit	1

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:

#### Basics of MapInfo or Arcgis

- the notion of Table.
- The concept of databases.
- Geographic databases.
- MapInfo or Arcgis interface
- The toolbars.
- The windows are anchored.
- Floating windows.

#### - Layer Managers

- Organize the diaper stack.
- Organize the characteristics of the layers.

#### - Create / Edit graphic data

- Delete an object.
- Create an object.
- The drawing layer.
- Change the geometry of the drawing.
- Use of symbols
  - Surface symbols

- Point symbols
- Linear symbols
- Layout
- Example of spatial analysis.

# Assessment method: 100% exam

# **Bibliographic references**

- Bourdin 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 3	
Teaching unit	EU. Discoveries
Matter	Soil mechanics 1
Coefficient	2
Credit	2

To enable students to understand foundation soils, their mechanical and physical properties, and their behavior in different structures, which will enable them to make an optimal choice of technical measures to use during construction or during the rehabilitation of these same structures, taking into account the conditions of use, economy, and safety. Introduce the student to the data of geology, soil and rock mechanics to understand the essential geotechnical problems encountered in the field of construction.

Teach students about the shapes of the earth and from the tutorials the students must know the different shapes of the sites and their suitability for urbanization and development.

# Recommended prior knowledge

Mathematics, physics, materials

# Content of the subject:

Chapter I: General geology concepts:

- 1- Introduction to Geology:
- 2- The Constituents of the Earth
- 3- Tectonics
- 4- Organic cycles and the formation of mountain ranges Algerian examples.

Chapter II: Notions of geomorphology:

1-Structural forms 2-

External geodynamics

Chapter III: Soil mechanics: 1-

Introduction

2-Physical characteristics of soils

3- Concepts of water in soils and compaction 4-

Consolidation, settlement.

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

Bibliographic references: To be defined by the teachers in charge of the subject.

Semester 3	
Teaching unit	EU. Transversal
Matter	Language 3: English 3
Coefficient	1
Credit	1

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

# Recommended prior knowledge

Knowledge acquired during first-year S1 and S2 training.

# Content of the subject:

- Technical English for Construction and Public Works companies
- -In-depth work on grammar and vocabulary,
- Common expressions in spoken language
- Oral and written practice through audiovisual means and current press articles
- English language manuals, technical data sheets and documentation

Assessment method:100% control in exam

Bibliographic references: To be defined by the teachers in charge

Semester 4	
Teaching unit	EU. Fundamentals
Matter	Workshop 4: Roads And networks water (Rehabilitation and development)
Coefficient	4
Credit	8

Prepare the student to intervene pragmatically on the city's various roads and networks. This objective is twofold: to plan VRD on Land to be Urbanized (TU) or to be urbanized under condition (TUC), or to intervene on existing networks with a view to rehabilitating or improving them.

# Recommended prior knowledge

Knowledge of urban planning, the foundations of urban operations, urban forms and their genesis. General knowledge of the urban project and therefore of the interdependencies of the different components of urban space.

# Content of the subject:

The workshop is split into two parts: Roads and networks

- Roads

Improvement of an urban travel plan on the scale of the urban agglomeration: 1-The inventory of the functioning of travel in the municipality:

Functional approach to the territory, Carrying out a field survey to inform thinking on mobility behavior, Diagnosis of soft links: attendance and usage habits of soft links present in the territory of the municipality.

2-Dysfunctions noted in the routes, the organization of travel and parking:

Physical, structural, functional, directional, signaling, equipment condition. 3-Plans for the development and management of improvements to urban travel.

Proposal for an urban transport redevelopment plan.

# - Drinking water and sanitation networks:

Study of urban planning and updating of data: population, built environment, expansion of the city.

Updated plans.

- AEP:
- Physical knowledge of the network
- Inventory: the aim of the field analysis is to highlight the shortcomings and operating anomalies, in order to define any possible adjustments to be made to generally improve the supply of drinking water and water use.
- Condition of the network and equipment (pipes, shut-off valves, suction cups and drainage).
- Condition of the structures (recovery stations, drilling and reservoirs).
- Network maintenance and monitoring.
- Sanitation:
- Physical knowledge of the network
- Inventory: the aim of the field analysis is to highlight the inadequacies and anomalies in the functioning of the network, in order to define any possible improvements to be made to generally improve the evacuation of wastewater outside the urban area and guarantee environmental protection.
- Condition of the network and equipment (pipes, pumping station, galleries, manholes and discharge structures).
- Maintenance and monitoring of the network (video monitoring devices for pipes, equipment for monitoring the technical condition of pipes: Hydraulic and gas, pipe lining technique, etc.)

The purpose of the network diagnosis is to establish a schedule of interventions and update data: different types of interventions (rehabilitation and/or redevelopment) depending on the results obtained and integration and connections of the TU (land to be urbanized).

# Assessment method:100% continuous assessment

**References:**In addition to the references to be defined by the teachers, the student must be in possession of a methodological collection for carrying out the network diagnosis.

Semester 4	
Teaching unit	EU.Fundamentals
Matter	VRD 2: Drinking water resources
Coefficient	3
Credit	6

Understanding and mastery of the operation of the drinking water supply system in urban areas and of water resource mobilization works.

#### Recommended prior knowledge

Mathematics, physics, cartography and topography.

# Content of the subject:

#### Chapter 1: General hydraulic concepts (pressure flow). Chapter 2: Systems

#### and main drinking water supply diagrams.

- Classification of drinking water systems;
- Water requirement standards and charts;
- AEP sources and water intake structures;
- Pumps and pumping stations;
- Regulation and storage works;
- Distribution networks and equipment;
- The particularities of the AEP of industrial zones;
- The operation, monitoring and control of the drinking water supply network.

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

#### Bibliographic references:

- GODART. H, Water supply and distribution, Engineering techniques, 2004.
- DUPONT A, Urban Hydraulics, Volume 1&2, EYROLLES Edition, 1979.
- Lyonnaise des eaux direction François VALIRON: Handbook for the water supply and sanitation manager, LAVOISIER, Paris, 1994.

Semester 4	
Teaching unit	EU.Fundamentals
Matter	Environmental Engineering
Coefficient	2
Credit	4

The course aims to broaden students' knowledge of security measures and urban protection techniques.

The city is considered a vulnerable environment to the effects of nature; the course aims to identify, analyze, and anticipate urban disasters and limit their damage.

Therefore, for decision-making support and technical diagnosis, this course allows the student to: identify the ecological issues of the city, those which challenge urban planners; identify the ecological issues relating to the practice of urban planning; analyze the impacts of eco-development on urban form; establish an impact study; grasp the links between urban planning and the solution of environmental problems, at the municipal level; Identify the different analytical approaches and methods relevant to ecology and develop a critical instance in the face of these approaches. Develop an intervention strategy on urban land, taking into account environmental impacts, development laws and pollution problems, ecosystems, human activities and land use, major intervention approaches, development techniques with a view to minimizing impacts on ecosystems, the urban political framework of the Algerian environment and elsewhere, eco-development and energy conservation, techniques for identifying and evaluating environmental impacts, inventory of elements, cumulative impacts, and the environmental assessment process.

#### Recommended prior knowledge

Urban ecology, chemistry, urban geography

# Content of the subject:

**Introduction**: Disasters in urban history and their effects on the emergence of urban planning, Perception and awareness of the risks of industrial societies – lessons learned from recent urban disasters - Uncertainty, prevention principle, precautionary principle, Fire, a controlled urban risk?, Natural risks, their integration into land law, critical analysis of natural risk prevention plans, The nebula of technological risks and the control of urbanization around dangerous installations.

**Natural risks**: flood, ground movement, earthquake, storm, forest fire, avalanche, tsunami, cyclone and volcanic eruption.

**Technological risks**: of anthropogenic origin, they include industrial, nuclear and dam rupture risks.

**Urban risk**: landslide, fire, erosion in urban areas, urban disaster, meteorological vigilance, (gas explosion, toxic material, etc.), disaster for residents,

**Risks of transporting dangerous materials**: by roads or highways, railways and by pipeline.

**Assessment method:**40% in continuous assessment and 60% in exam assessment **References:**to be defined by the subject teacher.

Semester 4	
Teaching unit	EU. Methodologies
Matter	Topography 2
Coefficient	1
Credit	1

Assimilate the graphic expression of a terrain and master applications in urban engineering.

#### Recommended prior knowledge

Physics, mathematics, computer science, geomorphology and soils and topography 1.

#### Content of the subject:

#### I-Topographical processes

- Method of raising
- Path calculation
- Calculating coordinates
- Applications
- Method of Implantations
- Calculation of implantations
- Implementation of alignments
- Implantation of points in planimetry
- Implementation of altimetric markers
- Radiation implantation
- Rectangular coordinate layout

#### II-Longitudinal and cross-sectional profiles

- Topographic profiles.
- Slope map.
- Application in various networks.

#### **III. Leveling**

- General
- information
- Direct leveling
- Indirect leveling

#### Assessment method:100% continuous assessment

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

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

At this stage, the aim is to implement GIS in an urban environment and to teach students all the possible applications offered by the software already seen in GIS unit 1. In a second step, develop a rich cartographic database.

#### 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
  - Implementation of GIS in urban environments
  - The creation of urban maps

#### Assessment method: 100% continuous

#### **Bibliographic references:**

- Bourdin 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)Geographic representation of urban images, photographic documents of architectural forms. Master's thesis, National School of Engineers of Saint-Etienne.

Semester 4	
Teaching unit	EU. Methodologies
Matter	Internship or outings
Coefficient	2
Credit	4

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

Bibliographic references: to be defined by the teachers responsible for the subject.

Semester 4	
Teaching unit	EU. Discoveries
Matter	Soil mechanics 2
Coefficient	2
Credit	2

Know the physical characteristics of the soils, their behavior in the different structures, which will allow them to make an optimal choice of technical measures to use during the construction or during the rehabilitation of these same structures, taking into account the conditions of use, economy and safety.

#### Recommended prior knowledge

Maths, physics, geology, soil mechanics 1

#### Content of the subject:

- 1- Retaining walls
- 2- Shallow foundations 3-

Deep foundations

- 4-Embankments and dikes
- 5 -In situ reconnaissance and testing

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

Bibliographic references: to be defined by the teachers responsible for the subject.

Semester 4	
Teaching unit	EU. Transversal
Matter	Foreign language (English4)
Coefficient	1
Credit	1

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 foundations 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.

Bibliographic references: To be defined by the teachers in charge of the subject.

Semester 5	
Teaching unit	EU. Fundamentals
Matter	Workshop 5: Socio-economic analysis and environmental
Coefficient	4
Credit	8

Prepare students for the analysis of a given urban space, by involving socio-economic and environmental parameters. This teaching also allows the acquisition of the skills necessary for the socio-economic and environmental analysis of a given area.

#### 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.

# Content of the subject:

After determining the scope of study, the student (or group) must follow the following steps:

- Collection and selection of basic data (cartographic and statistical);
- -Updating data;
- -Delimitation and identification of the elements of the spatial framework;
- -Data processing and development of analysis synthesis;
- -The graphic representation.
- Throughout the exercise, the student must take into account several dimensions (spatial, technical, climatic, financial and legal, and socio-cultural ......)

- A written report (a specification) accompanying the graph must be presented and displayed. In parallel with the workshop work, thematic presentations (related to the chosen approach) and meetings with local stakeholders on various concrete problems are recommended.

#### Assessment method: 100% Continuous assessment

#### **Bibliographic references:**

- Alberto Zucculli, Introduction to Operational Urban Planning and Urban Composition Volume. 3, OPU, Algiers 1984.

- Brahim Benyoucef. Urban analysis. Elements of methodology; Office of university publications, Algiers 1994;

- BLANCHET (Alain), GHIGLIONE (Rodolphe), MASSONAT (Jean), TROGNON (Alain), Survey Techniques in Social Sciences: Observe, Interview, Question, Paris, Dunod, 1987.

- Panerai, Philippe, Marcelle Demorgon, Jean-Charles Depaule. Urban Analysis.

Marseille, Parenthèses, 1999

Semester 5	
Teaching unit	EU. Fundamentals
Matter	VRD 3: Urban hydraulics and
	sanitation
Coefficient	3
Credit	6

This teaching subject is mainly devoted to:

The acquisition of tools and methods for calculating various roads and networks (VRD) through exercises and mini-projects.

Understanding and mastering the operation of the sanitation system of urban agglomerations and wastewater evacuation works.

#### Recommended prior knowledge

Mathematics, Physics and Topography.

# Content of the subject:

#### Urban hydrology:

- Water balances in the atmosphere
- Rainfall observations
- Means of precipitation assessment (rainfall measurement and exploitation networks)
- Flow measurement
- Measurement of pollutant flows

# Urban sanitation:

- Concepts of general hydraulics (free surface flows)
- Urban sanitation systems (wastewater disposal standards and irregularity coefficient)
- Sanitation networks (layout of collectors and networks, design parameters of a sanitation network)
- Concepts of hydraulic calculation of the pipeline network and network structures
- Types of network pipes
- Works on the sanitation network
- Rainwater drainage network
- Wastewater and sediment removal
- Operation, monitoring and control of the sanitation network

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

Bibliographic references: To be defined by the teachers in charge of the subject.

Semester 5	
Teaching unit	EU. Fundamentals
Matter	City and urban traffic
Coefficient	2
Credit	4

- Acquire knowledge and concepts relating to mobility issues.
- Understanding the interactions between transport systems, the evolution of urban traffic and its importance in the city while integrating it into the sustainability strategy.

# Recommended prior knowledge

- Generalities in urban planning
- Types and classification of roads
- Types of transport, modes and infrastructure
- Topography concepts

#### Content of the subject:

The content of this subject is presented in three axes:

- 1- General information on urban traffic
  - Definitions
  - Traffic issues in the city 2- Urban

roads and city organization

- The functions of roads; economic and social
- Technical characteristics and classification
- Urban forms and traffic networks 3-

Principles of infrastructure organization

- Development And design of there road network, of the equipment And of theinfrastructure necessary for traffic
- Case study (examples carried
- out) 4- Prospective studies
  - Study of some specific urban traffic projects.
  - Creation of a transport and traffic plan

#### Assessment method: 40% in continuous assessment and 60% in exam assessment

#### **Bibliographic references:**

To be defined by the teacher

Semester 5	
Teaching unit	EU. Methodologies
Matter	Management of the projects Andmarkets
	public
Coefficient	3
Credit	5

The main objective of this module is to understand the content of public contracts according to Algerian legislation, and to learn the techniques for managing development projects and the processes of project management.

# Recommended prior knowledge

Good knowledge of urban organization and planning. Development, urban planning rules, networks.

# Content of the subject:

#### I- Public markets

- I.1- Specifications.
- I.2- The partners: The public operator (project owner, responsible person

of walk ...)- The entrepreneur (THE groups of companies)- THE othersstakeholders (project managers, subcontractors, etc.)

I.3-Purpose and price of the markets:

- Market categories Nature and content of prices
- Settlement prices
- I.4- Procurement methods Selection methods Advertising rules
- I.5- Particular forms of walking:
- The order contract The conditional tranche contract I.6- The contractual documents:
- Constituent documents Subsequent documents (amendments, etc.)
- The order of service
- I.7- Guarantees Payment terms Changes during execution (Update of prices, Variation in mass, Change in importance
- of the various types of works)
- Deadline for completion, penalties and bonuses, and acceptance of work Warranty period
  - Termination (the different cases of termination).

# **II- Project management**

II.1- Projects: why and how? - Location and typology of projects in companies

II.2- Organizing projects - design approaches - What structure to make a project work? - Assessment and advice

II.3 - Set objectives, identify stakeholders - Lead meetings - Write minutes
II.4- Work organization - The tunnel effect and the project cycle -The assessment projects-Project profitability-Project team management- L'analysis strategic in project management.

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

# Bibliographic references:

- Public Procurement and Public Service Delegation Code – March 2016:

Presidential Decree No. 15-247 of September 16, 2015 regulating public procurement and public service delegations

- JEAN-C. Corbel. Project Management: Fundamentals - Methods - Tools. Eyrolles, 3rd edition, June 2012.

- Serge. Bellut. The Great Guide to Project Management. 1st edition Afnor, March 2018

- Vincent. Drecq. Project Management Practices. 40 Tools and Techniques for Making the Right Decisions. Dunod Publishing, May 2014.

Semester 5	
Teaching unit	EU. Methodologies
Matter	BIM modeling and simulation
Coefficient	2
Credit	4

Discover the basics of BIM methodology Software: Revit 2018

- Acquisition of software functionalities and basic automation necessary for architectural agency production work
- Prepare for the transformation of the "agency assistant" profession in structures and design offices that will apply BIM.

Teaching methods

- Alternation of theory and practice, based on specific case studies.
- Creation of project breakdowns according to the stages (Program, APS, APD, DCE, PRO, DET, DOE) and discovery of the specific role of the project manager adapted to the BIM method on each phase.

# Recommended prior knowledge

Maths, physics, technical drawing, materials, soil mechanics, RDM, topography, cartography, planning, urban planning and networks.

# Content of the subject:

- Revit 2019 Software Building the BIM Digital Model
- Presentation of the specific ergonomics of the screen and the operation of the software.
- The construction of walls, doors, windows, roofs, floors and all architectural objects.
- The creation of Views, Sections, Axonometries, Perspectives.
- Families, insertion of external files and BIM objects
- Layout, presentation and printing of documents on Revit

# Assessment method: 40% Continuous assessment, 40% Exam (Gless, 2019)

#### Bibliographic references:

CHAUDET, B., PATRASCU, M. & BOUILLON, J.-L. 2016. Digital modeling in the construction sector. French Journal of Information and Communication Sciences, 9. GLESS, H.-J. 2019. Towards a BIM-agile architectural design: proposal of a set of collaborative practices for better appropriation of BIM technology. University of Lorraine. JOBLOT, L. 2018. Contribution to the implementation of BIM in renovation: Proposal of a specific BIM Maturity Model.

KLINGELEERS, V. 2019. End-of-studies dissertation: "Development of a BIM heritage: Application case to the networks of the Flémalle fort."

LEBÈGUE, E. & CELNIK, O. 2014. BIM and digital modeling for architecture, building and construction, Editions Eyrolles.

LEVAN, SK 2016. BIM Management and Collaboration: Management, organization, processes and collaborative work in BIM project mode, Editions Evrolles.

MARIE, J.-B. 2019. Architects and engineers facing the project, Le Moniteur.

NAGY, G., CELNIK, O. & LEBÈGUE, E. 2015. BIM and digital modeling for architecture, building and construction, Editions Eyrolles.

PAULINE, C., CLÉMENT, C., MÉLANIE, D., XAVIER, K.-P. & NICOLAS, T. 2016.

Digital revolution in construction: analysis of the gains expected from the dissemination of digital tools (BIM and digital model) in the construction sector.

RENOU, J. & CHEMISE, S. 2019. Revit for BIM, Eyrolles.

TALIL, I., ZERHOUNI, F.-Z., BENSALAH, M., ELOUADI, A. & MHARZI, H. 2018. Memory end of studies: Building Information Modeling for Railway Applications: Design of a Tramway Substation. Master Thesis, ENSAK, Ibn Tofail University. (Chaudet et al., 2016)

(Talil et al., 2018, Klingeleers, 2019, Lebègue and Celnik, 2014)

(Pauline et al., 2016)

(Marie, 2019)

(Nagy et al., 2015, Renou and Chemise, 2019)

(Levan, 2016)

(Joblot, 2018, Nagy et al., 2015)

Semester 5	
Teaching unit	EU. Discovery
Matter	Ethics and professional conduct
Coefficient	1
Credit	1

Familiarize yourself with all the principles and rulesethics who manage and guide all activities, and determine thehomework payable by professionals in the performance of their activity.

#### Recommended prior knowledge

The statutes and regulations of higher education which govern the university.

# Content of the subject:

- 1- Definitions:
  - professional ethics
  - Ethics.
  - -Values
- Homework
  - -Profession, etc.
- 2- Rules, code of ethics and
  - Vision and applicability
  - Responsibility
- Respect
- Equity

-honesty

- 3-Professional conduct
- 4- Examples of code of ethics.
- 5-Protection of personal data and new information and communication technologies
  - Research Data Security
  - Ethical aspects of data sharing in science
- 6-The research profession in light of ethics and societal issues:
  - Scientific integrity, fraud and ethics
  - Ethics of research policy
  - Ethical vigilance of researchers
  - research ethics and ethics of research participation
- 7-Key standards for the ethics of research involving human subjects

Assessment method:100% Control under review.

#### Bibliographic references: To be agreed with the teaching team

Semester 5	
Teaching unit	EU. Transversal
Matter	Urban green spaces.
Coefficient	2
Credit	2

-Benefit from knowledge about green spaces and their impact on the environment, particularly urban;

-Understand the different parameters necessary for the development, design and creation of green spaces;

-Analyze and diagnose the state of green spaces in urban environments;

-Define the needs of urban populations in terms of green spaces.

# Recommended prior knowledge

Materials, soil mechanics, environmental engineering, topography and cartography.

# Content of the subject:

The courses in this subject are structured around the following axes:

#### -Introduction.

-Definitions and concepts.

-Historical approach to green spaces.

#### -The functions of green spaces.

\*the different roles of green spaces.

\*the functions of trees and green spaces:

#### -Typology of green spaces:

-Green space standards:

-Plant biology.

-Design and development of urban green spaces.

#### -Management of urban green spaces.

- Management work.
- Pace of interviews.
- Plant protection.
- Irrigation systems.

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

# 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 Valde-Marne, council of architecture, town planning and the environment of Val-de-Marne, Créaphis editions, 2003.

-Bigot Denis, Development of landscaped spaces, Le Moniteur editions, 2016.

-Daures JF, Plant Architecture, Eyrolles editions, 2011.

-Larcher JL and Gelgon T, Development and maintenance of plant surfaces, editions

-LavoisierTec and 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
Matter	Workshop 06: Professional project workshop
Coefficient	7
Credit	14

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 preprofessionalization 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 workshops**are 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 territorial organization logics. 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 6	
Teaching unit	EU. Fundamental
Matter	Major risks in urban environments
Coefficient	2
Credit	4

The objective of teaching this subject is to lead students to understand the origins of the risks that hit cities and urban environments hard. The population, infrastructure and economic components present themselves as precarious issues in the face of the potential danger of these risks. Industrial installations or classified activities forge close relationships with the urban population, important economic and social relationships.

#### Content of the subject:

#### 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 risksAnd technologies related 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,

Semester 6	
Teaching unit	EU. Methodological
Matter	Internship in a professional environment
Coefficient	4
Credit	9

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	Professional project and business management PPGE
Coefficient	2
Credit	2

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: The company 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.).
- Company structure (definition and characteristics).
- Different types of structures (structure functional,

divisional, multidivisional, hierarchical-functional "staff and line").

- Additional activities of the company (partnership, subcontracting, etc.).

Chapter 3: How to get into a company.

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

#### Chapter 4: How to start your own business

- The business creator's journey (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

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- AGREEMENTS AND CONVENTIONS**

REPUBLIQUE ALGERIENNE DEMOCRATIQUE ET POPULAIRE الجمهورية الجزائرية الديمقر اطية الشعبية Ministère de l'enseignement supérieur et de la recherche scientifique وزارة التعليم العالي والبحث العلمي Université Mohamed Seddik BENYAHIA.JUEL

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)



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 (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 Ubjet Ubj

#### Article 02 → Les échanges et la coopération entre les deux établissements Contenu 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;



1	Assurer	le	suivi	et	la	coordination	des	projets	;
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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.

I'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

Article 05 → Confidentialité	humain à la tache d'enseignement pratique). " 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 du totale de ses engagements en cas de force majeure, laquelle est entendue comme tout événement externe aux parties insurmontable et imprévisible.

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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 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-JUEL



Fait à Jijel, Le: 24 MATS 2021 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 التطيم العالي والبحث الطمي Université Mohamed Seddik BENYAHIAJUEL

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-



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#### 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

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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	<ul> <li>Les échanges et la coopération entre les deux établissements peuvent revêtir les formes citées dans alinéas suivants :</li> <li>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.</li> <li>Le recyclage, la mise à niveau (éventuellement : la formation) et la spécialisation des personnels technique de l'URBACO-Agence-JUEL Par le corps d'enseignants chercheurs du département d'architecture</li> <li>La participation de l'URBACO-Agence-JUEL dans le cursus universitaire des étudiants :</li> </ul>
Article 03 → Conditions De Mise En Œuvre	<ul> <li>En cours ou en fin de cycle de licence et master</li> <li>En Doctorat</li> <li>Cette Participation s'entend :</li> <li>En termes d'accueil d'encadrement technique des stages pratiques au niveau de l'entreprise (objet d'une convention particulière et individualisée : voir annexes)</li> <li>Et en termes de participation aux taches pédagogiques (support humain a la tache d'enseignement en travaux dirigés et ou en pratiques).</li> <li>La formation et le conseil informatique ingénierie La participation de l'URBACO-Agence-JUEL dans l'organisation et ou le sponsoring (éventuellement) de manifestations scientifiques organisées par Le Département d'Architecture.</li> <li>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</li> <li>Chaque projet fera l'objet d'un contrat entre : "Département d'Architecture.". Et l'URBACO- Agence-JUEL 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.</li> <li>Les deux parties conviennent de mettre en place dans les quinze (15) jours qui suivent la signature du présent contrat de coopération.</li> <li>✓ Définir les axes et thèmes de coopération.</li> <li>✓ Soumettre les contrats des projets au Président Directeur Général de " L'URBACO- Agence-JUEL " et au Recteur du "Département d'Architecture."</li> </ul>

✓ 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 "PURBACO- Agence-JUEL ", 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-JUEL ".

✓ "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.

"I'URBACO- Agence-JUEL "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 →

Confidentialit

#### " 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-JUEL " se réserve le droit d'exiger avant toute publication le retrait des données de l'étude qu'elle jugera confidentielles.

Article 06 →

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-JUEL ", 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.

Chacune des parties conserve à sa propre charge dans les Article 07 → conditions de droits communs, les conséquences intégrales de la Responsabilité 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.

Tout différend survenant A l'occasion de. L'interprétation ou de Article 08 → l'exécution du présent accord sera réglé, en priorité, A l'amiable.

Le cas échéant, il sera fait appel au tribunal territorialement compétent.

**Résiliation De** L'accord Cadre

Des Differen

Article 09 -> 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.

> > 4.8%

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 $\rightarrow$ 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- JUEL -

Fait à Jijel, Le : Pr. AMIRECHIHamza Le racteur de l'université REPUBLIQUE ALGERIENNE DEMOCRATIQUE ET POPULAIRE الجمهورية الجزائرية الديمقر اطية الشعية Ministère de l'enseignement supérieur et de la recherche scientifique وزارة التعليم العالي والبحث العلمي Université Mohamed Seddik BENYAHIA.JUEL

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)



للسين المساعلة الفطرية ، الفناية التشكية را يكارة العمريمة لركية جيش Etablissement Public On Wileya De Gention Des Espaces Fints, Aires De Lotsins El Eclainage Public Wileya De Jijel



#### 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





- 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

#### Article 04 → \* " 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).

Confidentialité

Article 05 → "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.

Intellectuelle

Article 06 → 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 → 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 → Tout différend survenant à l'occasion de l'interprétation ou de l'exécution du présent accord sera réglé, en priorité, à l'amiable. Règlement Le cas échéant, il sera fait appel au tribunal territorialement compétent.

Article 09 → 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.

Force Majeure

L'accord Cadre

Article 10 → 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 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 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 also 0 3

Mr. ABDALLAH YAZID Le Directeur de EPW GEVALEP-Jijel

Fait à Mel. USDS 2948 E G : " Pr. AMIRECHEHAMZA Le Recteur de l'Université

REPUBLIQUE ALGERIENNE DEMOCRATIQUE ET POPULAIRE الجمهورية الجزائرية الديمقر اطية الشعبية Ministère de l'enseignement supérieur et de la recherche scientifique وزارة التعليم العالي والبحث العلمي Université Mohamed Seddik BENYAHIA.JUEL

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



#### 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 Objet Ubjet Objet Ubjet Ub
- Article 02 → Les échanges et la coopération entre les deux établissements Contenu 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-JUEL 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.

I'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 → Confidentialit

" 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 → 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.

Chacune des parties conserve à sa propre charge dans les Article 07 → 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 → 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.

Résiliation De L'accord Cadre

Article 09 → 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.

Force Maieure

Article 10 → 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  $\rightarrow$ 

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 lijet. Fait à Jijel, Le: 1 7 4185 7070 Le: 1 7 KLRS 2020 Pr. AMIRECHE Hamza Mr BENDJEDDOU Ali Le recteur de l'université Le Directeur de l'ONA-JUE

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 <u>AADL-JIJEL</u> 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 EAWZI est désigné(e) comme coordonnateur externe de ce projet.

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

Faità JISEL le 12/02/2020

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

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'a	dministration d'accueil :	Entre prise	Portuonia ol	e D Jen Dfer.
Représenté par :	rende le Directer Go	uchal Nr Do	UAB Aludes	len

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 <u>l'entraine</u> <u>de Dur Jun</u> 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 JOEL 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 Abdeslen Président Directer Général 09

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 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 <u>BET d'Architecture et d'un banisme bouber</u>Ardéclare 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 Na Some coordonnateur externe de ce projet.

Fait à JIJEL , le 04/0 12020

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 : BOUBEZARE Massim



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	IKBANISTE
Représenté par : AMMAR K E	DDAM		

**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 <u>KENDAM</u> <u>ARCHITETE URGANISTE</u> 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.

KEDDA Monsieur (ou Madame) AMMAR est désigné(e) comme coordonnateur externe de ce projet.

Fait à JIJEL 10 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 : <u>A - LE DD AM</u>



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

L'établissement eu l'administration d'accusil	DET "PUPME'"
L etablissement ou l'administration d'accueil :	101 1 7 F- 71 V (1D
Représenté par : Kabsia , F	atels

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 <u>BET PURANID</u> 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,

Et

- 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) ICEDIA Fatel est désigné(e) comme coordonnateur externe de ce projet.

Fait à Mila , 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 : 42034 Eatel



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 :	BEI	2NZOJA
Représenté par :	D' 2AZOJA	YNIME	

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 <u>bell 214014</u> 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)	ZKEDJA	YARSWE	est	désigné(e)
comme coordonnateur ex	terne de ce projet.			

Faità JIJEL le 04/04/2020

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

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

Ξt

L'établissement ou l'administration d'accueil :	KHEUSE	APCHITETURE
Représenté par : RHEUNE A	MEL	

**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 KHEUAF APEUTITEETWE 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) KHEUDRE AMEL est désigné(e) comme coordonnateur externe de ce projet.

-yel 10 05/02/2020 Fait à .....

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



KHELLAF Amel Architecte Agréé Agr: L 13/18/21106 Tel:0780 43 34 94

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

# V- Brief CV of the teaching team

(Internal and external / according to the attached model) (A team of 3 members minimum, 1/unit for 2 semesters)

#### Name and surname: AIDAT Adila Date and place of birth: 04/23/1983 in Jijel Email and telephone:<u>adila\_dah@yahoo.com /</u> 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)

Name and surname: AMIRECHE Hamza Date and place of birth: 1955 in Ouled Asker Jijel Email and telephone:<u>hamzaamireche@yahoo.fr</u> / 0661 18 25 23 Grade: Professor Establishment Or institution of connection: University Mohamed SeddikBENYAHIA. 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

Name and surname: BABA m. SISSAOUI Rima Date and place of birth: 24-01-1988 EI-Milia- Jijel Email and telephone:<u>baba\_rima@yahoo.com</u>, 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.

- 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

#### Name and surname: BENKECHKACHE Ghofrane Date and place of birth: October 9, 1981 Constantine Email and telephone: <u>b\_ghofrane@yahoo.fr</u>

#### 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)

First and last name :BENZAID Riad

Date and place of birth :10/07/1975

Email and telephone: <a href="mailto:benzaid.riad@gmail.com">benzaid.riad@gmail.com</a> / 0559 038 728

**Grade** :Lecturer (A)

**Establishment Or institution of connection:** University Mohammed Seddik BENYAHIA-Jijel

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 Sciencein 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.

- 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

#### Name and surname: 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 connection:** University Mohammed Seddik BENYAHIA-Jijel

## 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

- 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.

Name and surname: BOUCHAIR Ammar Date and place of birth :1958 in Tassala (Mila) Email and telephone:<u>abouchair@gmail.com</u> / 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

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

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

Email and telephone:<u>hbouchafra@yahoo.com</u> / 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.
   Yapr: 2006

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

#### 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 connection:** University Mohammed Seddik BENYAHIA-Jijel.

### 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 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 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.

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).

Name and surname: BOURAOUI Riad Date and place of birth: 04/05/01966 Email and telephone:<u>bouraoui.r@gmail.com</u>

#### 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 connection:** University Mohammed Seddik BENYAHIA-Jijel

## 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

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

Name and surname: BOUTAOUTAOU Elarabi Date and place of birth: 12/30/1982 in Guelma Email and telephone:<u>lboutaoutaou@yahoo.fr</u> 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.

Name and surname: CHOUGUI Mohamed Lamine Date and place of birth: January 22, 1984 in Constantine Email and telephone:<u>chouguilamine@yahoo.fr</u>

#### 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

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

- 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

#### Name and surname: GRIMES Saïd

Date and place of birth: July 29, 1961

Mail And phone :

grimes.said@univ-jijel.dz

grimess29@gmail.com 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

**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

SKILLSeducational professionals (subjects taught 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)

#### Name and surname: GUESSOUM Warda

Date and place of birth :07/28/1982 in Souk Ahras

Email and telephone:<u>guessoumwarda@gmail.com</u> / 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 of Oum El Bouaghi Year : 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

Name and surname: 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.

- 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)

#### Name and surname: HALLOUFI Ouahid

Date and place of birth: May 11, 1984

Email and telephone: <a href="mailto:ywahid@yahoo.fr">wwahid@yahoo.fr</a> - 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 year of 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.

#### Name and surname: HALLALIbtissem

Date and place of birth: 04/11/1979

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 workshop modules3rd and 4th year 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.

#### Name and surname: KHELFALLAH Schahrazed Date and place of birth: 06/09/1978 Chlef/ Algeria Email:<u>khelfallah.s@gmail.com</u> Tel: 0560149402

#### Grade: MAA

Establishment Or institution of connection: University Mohamed SeddikBENYAHIA. 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

#### 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

Name and surname: LAOUAR Djenette

Date and place of birth: 05/07/1977 in Mila

Email and telephone: <u>laouar\_djenette@yahoo.fr</u> / 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

Name and surname: LATLI Azzedine

Date and place of birth: 11/16/1968 in Sidi Abdelaziz – Jijel Email and telephone:<u>azer\_lati@yahoo.fr</u> / 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)

- 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.

#### Name and surname: LEHTIHET Mohammed Chérif

**Date and place of birth :**07/11/1962 in JIJEL. Algeria Mail and telephone:<u>c\_lehtihet@yahoo.fr</u>0662787826 Grade: MAA

**Establishment Or institution of connection:** University Mohammed Seddik BENYAHIA-Jijel

# 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.

- 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.

#### Name and surname: MEBROUK Fateh

Date and place of birth: 03/05/1964 in Jijel

Email and telephone: mebrouk06@yahoo.fr

05 55 88 22 96

Establishment Or institution of connection: University Mohamed SeddikBENYAHIA – JIJEL -

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

#### Titles and Diplomas:

Grade: Professor

- 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

Name and surname: OUARI Mounia Date and place of birth: 11/20/1976 in Sétif Email and telephone:<u>monilena2@gmail.com</u> / 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

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 connection:** University Mohammed Seddik BENYAHIA-Jijel.

# 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 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.

#### Name and surname: SAFRI Saïd

Date and place of birth : April 20, 1964 in Jijel

Email and telephone: <u>nouredine.safri@yahoo.fr</u> / 07 93 89 36 24

Grade : Assistant Professor "A"

**Establishment Or institution of connection:** University Mohammed Seddik BENYAHIA-Jijel

# 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.

- 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).

#### 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.

- 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).

Name and surname: SOUKEHAL Boudjemaa

Date and place of birth: 05/17/1964 in Beni-Guecha, Ferdjioua, Mila Email and telephone:<u>Salim\_mila@yahoo.fr</u> 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.

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

#### 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 :<u>tebbouche.h@gmail.com</u>

#### 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:

<u>November 2010</u>: 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.

- 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: URBAN ENGINEERING





### **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)