

*People's democratic republic of Algeria*

*Ministry of higher education and scientific research*

**MASTER TRAINING OFFER**

**ACADEMIC**

<b>Establishment</b>	<b>Faculty</b>	<b>Department</b>
<i>Mohamed Khider University, Biskra</i>	<i>Faculty of Exact Sciences and Natural Sciences and Life</i>	<i>Earth Science and the Universe</i>
<b>Domain</b>	<b>Study</b>	<b>Specialty</b>
<i>Earth Science and the Universe (ESU)</i>	<i>Geography and Planning of the Territory</i>	<i>urban planning</i>

**Domain:** *Earth Science and the Universe (ESU)*, **Study:** *Geography and Planning of the Territory* **Specialty :** *urban planning*

## Semester 1 :

Teaching unit	Title of subjects	credits	coeff	Weekly Courier Volume			WCV (14 weeks)	others	evaluation method	
				course	tutorials	practical work			Content %	Examen %
<b>fundamental unit</b> coded: F.T. U1.1.1 credits: 12 coefficients:6	Urban planning, Legislation and Governance	6	3	3h.00	01h30	-	63h00	-.	40	60
	the city and globalization	6	3	3h.00	01h30	-	63h00	-	40	60
<b>fundamental unit</b> coded: F.T.U. 2.1.1 credits: 6 coefficients:3	roads and various networks	6	3	3h.00	01h30	-	63h00	-	40	60
<b>Methodology unit</b> Coded: M.T.U11 Credits:9 Coefficients:5	Territorial diagnosis	5	3	01h30	-	02h30	56h00	-	40	60
	topography	4	2	01h30	-	01h30	42h00	-	40	60
<b>Discovery unit</b> Coded: D.T.U11 Credits:2 Coefficients:2	urban ecology	2	2	01h30	01h30	-	42h00	-	40	60
<b>Transversal unit</b> Coded ;T.T.U11 Credits :1 Coefficients :1	English1	1	1	01h30	-	-	21h00	-	-	100
<b>total semester</b>		30	17	15h	06h	04h	350h00			

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**Semester 2 :**

Teaching unit	Title of subjects	credits	coeff	Weekly Courier Volume			WCV (14 weeks)	others	evaluation method	
				course	tutorials	practical work			Content %	Examen %
<b>fundamental unit</b> coded: F.T. U1.2.1 credits: 6 coefficients:3	habitat and living environment	6	3	3h.00	01h30	-	63h00	-	40	60
<b>fundamental unit</b> coded: F.T.U. 2.2.1 credits: 12 coefficients:6	major risks and resilience	6	3	3h.00	01h30	-	63h00	-	40	60
	urban hydraulics	6	3	3h.00	01h30	-	63h00	-	40	60
<b>Methodology unit</b> Coded: M.T.U11 Credits:9 Coefficients:6	statistics applied to urban planning	3	2	01h30	01h30	-	56h00	-	40	60
	remote sensing	3	2	01h30	-	01h30	42h00	-	40	60
	field internship	3	2				42h00		100	
<b>Discovery unit</b> Coded: D.T.U11 Credits:2 Coefficients:1	urban economy	2	1	01h30	-	-	42h00	-	40	60
<b>Transversal unit</b> Coded ;T.T.U11 Credits :1 Coefficients :1	English2	1	1	01h30	-	-	21h00	-	-	100
<b>total semester</b>		30	17	15h.00	06h.00	01.30h	357h00			

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### Semester 3 :

Teaching unit	Title of subjects	credits	coeff	Weekly Courier Volume			WCV (14 weeks)	others	evaluation method	
				course	tutorials	practical work			Content %	Examen %
<b>fundamental unit</b> coded: F.T. U1.2.1 credits: 12 coefficients:6	<i>Planning of the Territory</i>	6	3	3h.00	01h30	-	63h00	-	40	60
	Urban structures	6	3	3h.00	01h30	-	63h00	-	40	60
<b>fundamental unit</b> coded: F.T.U. 2.2.1 credits: 6 coefficients:3	City and sustainable development	6	3	3h.00	01h30	-	63h00	-	40	60
<b>Methodology unit</b> Coded: M.T.U11 Credits:6 Coefficients:3	Research methodology and investigation technique	5	3	01h30		2h30	56h00	-	40	60
<b>Methodology unit</b> Coded: M.T.U11 Credits:4 Coefficients:2	Geographic information systems and digital applications	4	2	01h30	-	01h30	42h00	-	40	60
<b>Discovery unit</b> Coded: D.T.U11 Credits:2 Coefficients:2	Urban sociology	2	2	01h30	1h30	-	42h00	-	40	60
<b>Transversal unit</b> Coded ;T.T.U11 Credits :1 Coefficients :1	Contracting	1	1	01h30	-	-	21h00	-	-	100
<b>total semester</b>		30	17	15h.00	06h.00	01.30h	357h00			

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**Semester 4 :**

<b>Teaching unit</b>	<b>VHS</b>	<b>COEF</b>	<b>CREDITS</b>
<i>Fundamental unit</i>			
<b>PFE</b>	<b>360</b>	<b>17</b>	<b>30</b>
<b>total semester</b>	<b>360</b>	<b>17</b>	<b>30</b>

## **Detailed program by subject**

# ***Semester 1***

***Semester 1***

***Cycle: Master first year***

***Fundamental unit***

***Course title: Urban planning, Legislation and Governance***

***Credits :6***

***Coeff :3***

***Course content:***

1. General Overview
2. Genesis of Cities
3. Urban Planning
4. Legislation on Development and Urban Planning - Practices in Development and Urban Planning
5. Governance



***Semester 1***

***Cycle: Master first year***

***Fundamental unit***

***Course title: the city and globalization***

***Credits :6***

***Coeff :3***

***Course content:***

**Chapter I Globalization**

- definition, objective and main causes of globalization
- the elements and different types of globalization
- the challenges of globalization, the main actors of globalization
- the advantages and positive effects of globalization

**Chapter II the city and globalization**

- globalization and urbanization
- Territories unevenly integrated into globalization
- the city, type, shape, elements of a city
- the city in globalization (definition, characteristics, the role of cities in globalization)
- How globalization is transforming cities, the consequences of globalization on cities
- the poles of globalization (the multiplication of poles, the metropolisation archipelago, the importance of interface)
- major world cities

**Chapter III Globalization, metropolization and urban change in Africa**

- the disadvantages and advantages of globalization for Africa
- The dynamics of a large African geographical area
- new African metropolis

## ***Semester 1***

***Cycle: Master first year***

***Methodology unit***

***Course title: Territorial and prospective diagnosis***

***Credits :5***

***Coeff :3***

### ***Course content***

**Chapter I** Fundamental notions of territorial diagnosis

**Chapter II** Exploratory surveys and identification of themes and areas of study

**Chapter III** Formation of working groups

**Chapter IV** Identification and contextualization of the proposed issues

**Chapter V** Development and interpretation of graphic documents

**Chapter VI** The problems and challenges of the selected territories

**Chapter VII** Formulation of prospective development paths

**Chapter VIII** Observe and describe a territory using different types of documents (graphics, statistics, sensitive documents in particular)

**Chapter IX** Select and prioritize information and its analysis

**Chapter X** Identify the issues and dynamics of a territory by assessing strengths and weaknesses

**Chapter XI** Know how to build a critical approach integrating perspectives of evolution

**Chapter XII** Transformation of the territories studied

**Chapter XIII** Propose an orientation for reflection

**Chapter XIV** Use various tools and methods (mapping, statistics, morphological analysis, interviews, etc.)

***Semester 1***

***Cycle: Master first year***

***Methodology unit***

***Course title: topography***

***Credits :4***

***Coeff :2***

***Course content***

**1. General concept**

**2. Geodesy**

**3. Topography**

**4. Earth shape**

**5. Projection system**

**6. Geographical coordinates**

**7. Orientation (north)**

**8. Topographic maps**

**9. The concept of errors and uncertainty. Faults and errors.**

1. Mistakes

2. Errors

3. Findings

**10. Measuring distances:**

1. Distance measuring tools

**11. Statistics on direct measurements**

**12. Measuring distances**

1. Instruments for measuring distances

2. Staking out

3. Flat measurement

**13. Measuring distances**

4. Measurement accuracy

5. Direct measurements

6. Measuring indirect lengths

**14. Measuring angles**

1. Units of angle measurement

2. The odolite

3. Measuring horizontal angles

4. Measuring vertical angles

# **Semester3**

The content for the third semester assessments has not been received as of now from the National Council for the Field of Earth and Space Sciences.

## **Semester4**

The fourth semester includes a graduation project with a credit value of 30 and an evaluation coefficient of 17.