

الجمهورية الجزائرية الديمقراطية الشعبية  
PEOPLE'S DEMOCRATIC REPUBLIC OF ALGERIA

وزارة التعليم العالي و البحث العلمي  
MINISTRY OF HIGHER EDUCATION AND SCIENTIFIC  
RESEARCH

**MASTER: CHEMISTRY OF  
MATERIALS  
ACADEMIC**

<b>Establishment</b>	<b>Faculty</b>	<b>Department</b>
<b>University Of Biskra</b>	<b>Faculty Of Exact Sciences Natural And Life Sciences</b>	<b>Science of matter</b>

**Field : Sciences de la matière**

**Branch : Chemistry**

**Speciality : Chemistry Of Materials**

**Academic year : 2015-2016**

**- Semester 1 :**

Teaching Unit	SHV	Weekly HV			Other *	Coeff	Credits	Evaluation method	
	14-16 Week	Lectures	TS	PW				Continuous assessment	Final exam
<b>Fundamental TU</b>						<b>9</b>	<b>18</b>		
<b>FTU1</b>									
Organic chemistry	67h30	3h00	1h30	/	82h30	3	6	33%	67%
Organometallic chemistry	45h00	1h30	1h30	/	55h00	2	4	33%	67%
<b>FTU2</b>									
Atomic and molecular spectroscopy	45h00	1h30	1h30	/	55h00	2	4	33%	67%
Crystallography 1	45h00	1h30	1h30	/	55h00	2	4	33%	67%
<b>Methodology TU</b>						<b>5</b>	<b>9</b>		
<b>MTU1</b>									
PW Organic chemistry	60h00	/	/	4h00	55h00	3	5	50%	50%
PW spectroscopic methods of analysis	45h00	/	/	3h00	55h00	2	4	50%	50%
<b>Discovery TU</b>						<b>2</b>	<b>2</b>		
<b>DTU1</b>									
The Materials of Civilization	22h30	1h30	/	/	02h30	1	1		100%
<b>DTU2</b>									
Therapeutic chemistry	22h30	1h30	/	/	02h30	1	1		100%
<b>Transversal TU</b>						<b>1</b>	<b>1</b>		
<b>TTU1</b>									
English	22h30	1h30	/	/	02h30	1	1		100%
<b>Total Semester 1</b>	<b>375h00</b>	<b>13h30</b>	<b>6h00</b>	<b>7h00</b>	<b>365h00</b>	<b>17</b>	<b>30</b>		

**Other\*:** additional work in biannual consultation

## 2- Semester 2 :

Teaching Unit	SHV	Weekly HV			Other *	Coeff	Credits	Evaluation method	
	14-16 Week	Lectures	TS	PW				Continuous assessment	Final exam
<b>Fundamental TU</b>						<b>9</b>	<b>18</b>		
<b>FTU1</b>									
Crystallography 2	67h30	3h00	1h30	/	82h30	3	6	33%	67%
Thermodynamics of solutions	45h00	1h30	1h30	/	55h00	2	4	33%	67%
<b>FTU 2</b>									
Group theory	45h00	1h30	1h30	/	55h00	2	4	33%	67%
Analytical electrochemistry	45h00	1h30	1h30	/	55h00	2	4	33%	67%
<b>Methodology TU</b>						<b>5</b>	<b>9</b>		
<b>MTU1</b>									
Quantum Chemistry	45h00	1h30	1h30	/	55h00	2	4	50%	50%
PW Materials characterization techniques	60h00	/	/	4h	55h00	3	5	50%	50%
<b>Discovery TU</b>						<b>2</b>	<b>2</b>		
<b>DTU1</b>									
Informatics for chemistry	22h30	1h30		1h30	5h00	2	2	50%	50%
<b>Transversal TU</b>						<b>1</b>	<b>1</b>		
<b>TTU1</b>									
Thermal Analysis Methods	45h00	1h30	/	/	2h30	1	1		100%
<b>Total Semester 2</b>	<b>375h00</b>	<b>12h00</b>	<b>7h30</b>	<b>5h30</b>	<b>365h00</b>	<b>17</b>	<b>30</b>		

**Other\*:** additional work in biannual consultation

### 3- Semester 3 :

Teaching Unit	SHV	Weekly HV			Other *	Coeff	Credits	Evaluation method	
	14-16 Week	Lectures	TS	PW				Continuous assessment	Final exam
<b>Fundamental TU</b>						<b>9</b>	<b>18</b>		
<b>FTU1</b>									
Physical properties of solids	45h00	1h30	1h30	/	55h00	2	4	33%	67%
Molecular Materials	67h30	3h00	1h30	/	82h30	3	6	33%	67%
<b>FTU2</b>									
Non-Stoichiometry in Solids	45h00	1h30	1h30	/	55h00	2	4	33%	67%
Quantum calculation methods	45h30	1h30	1h30	/	55h00	2	4	33%	67%
<b>Methodology TU</b>						<b>5</b>	<b>9</b>		
<b>MTU1</b>									
Synthesis and Characterization of Materials	67h30	1h30	/	3h	55h00	3	5	50%	50%
Analytical Physicochemistry	45h30	1h30	1h30	/	55h00	2	4	50%	50%
<b>Discovery TU</b>						<b>2</b>	<b>2</b>		
<b>DTU1</b>									
Quantum Modeling of Materials	22h30	1h30	/	1h30	5h00	2	2	50%	50%
<b>Transversal TU</b>						<b>1</b>	<b>1</b>		
<b>TTU1</b>									
Scientific research methodology	45h30	1h30	/	/	2h30	1	1		100%
<b>Total Semester 3</b>	<b>382h30</b>	<b>13h30</b>	<b>7h30</b>	<b>4h30</b>	<b>365h00</b>	<b>15</b>	<b>30</b>		

**Other\*:** additional work in biannual consultation

