

SYLLABUS

Field: Earth and Universe Sciences.
Branch: Geography and land planning.
Speciality: Land planning.
Semester: Second semester
Academic year: 2022/2023

Identification of the teaching subject

Entitled: Introduction to Geomatics.
Teaching unit: M213
Number of credits: 3
Coefficient: 2

Total number of hours per week: **3 h**

- Course (number of hours per week): **1.30 h**
- Practical work (number of hours per week): **1.30 h**

Responsible for teaching subject

First name, Last name, Grade:

Mr **DERRADJI Saif Eddine** Assistant Professor « A »

Office location (Block, Office): **DICAV – office 11**

Email: dseifeddine@hotmail.fr

Phone (Optional): /

Time and place of the course: Sunday from **09h45** to **11h15** Salle **J08**.

Time and place of Practical work:

- ✓ Sunday (G2 Salle **J 08** from **12h00** to **13h30**).
- ✓ Sunday (G1 Salle **J 08** from **13h30** to **15h00**).

E-Learning training platform:

<https://elearning-facsct.univ-annaba.dz/course/view.php?id=290>



Description of the teaching subject

Prerequisite: cartographic techniques - computer science.

General objective of this subject:

Through this subject, the student can acquire knowledge and technologies necessary for the production and processing of digital data describing the territory, its resources or any other object or phenomenon with a geographical position

Learning Objectives:

- 1) Identify and study the methods and technologies for acquiring, storing, analyzing, interpreting, and diffusing geographic information.
- 2) Apply and exploit geomatics methods and technologies.
- 3) Learn and master the use of Qgis software

Content of the teaching subject

- 1) Introduction to geomatics.
- 2) Geographic information.
- 3) Foundations of location:
 - The shape of the earth: geodesy.
 - Geographic coordinate systems.
 - Projection: representing the earth on a plane.
- 4) Collection of geographic data:
 - Topography.
 - Photogrammetry.
 - Remote sensing.
- 5) Processing, analysis and diffusion of geographic data:
 - Cartography.
 - Geographic information systems and specialized computer science.
- 6) Geomatics and the web.



Evaluation methods

Nature of the control	Percentage weighting
Exam	60 %
Micro – interrogation	/
Practical work in class and through the E-learning platform	30%
Personal project	/
Group work	/
Field trips	/
Attendance (Presence/Absence) in class and through the use of the E-learning platform and completion of courses and activities	10%
Other	/
Total	100%

References & Bibliography

Tex book (Main reference) :		
Title of the book	Author	Publisher and year of publication
La dimension géographique des systèmes d'information	Pornon H	Dunod 2011
A gentle introduction to GIS	Sutton T	2009
Thematic cartography and geovisualization	SLOCUM, T.A., McMASTER, R.B., KESSLER, F.C., et HOWARD, H.H.	Third edtion. Upper Saddle River, NJ: Pearson Prentice Hall. (2009).
Supporting references if they exist:		
Title of the book (1)	Author	Publisher and year of publication
/	/	/



Planning of the courses / PW

Week	Course / PW title	Date
1	Presentation of the syllabus	
2	Introduction to Geomatics	
	PW n° : 01 Installation of Qgis software	
3	Geographic information (1)	
	PW n°: 02 presentation of the Qgis software (Interface, tools, extensions...)	
4	Geographic information (2)	
	PW n° : 03 Georeferencing in Qgis	
5	The foundations of localization	
	PW n° :04 creation of databases in Qgis	
6	Collection of geographical data (1) (Introduction to topography)	
	PW n° :05 creation of point and line layers in Qgis	
7	Collection of geographical data (2) (Introduction to topography)	
	PW n° :06 creation of surface layers in Qgis	
8	Collection of geographical data (3) (Introduction to photogrammetry)	
	PW n° :07 data attribution in Qgis	
9	Collection of geographical data (4) (Introduction to remote sensing)	
	PW n° :08 thematic analysis or symbology in Qgis	
10	Processing, analysis and diffusion of geographic data (1)	
	PW n° :09 layout and exportation in Qgis	
11	Processing, analysis and diffusion of geographic data (2) (Introduction to GIS)	
	PW n° :10 types of selection and creation of layers and extracting data in Qgis	
12	Geomatics and the web (1)	
	PW n° :11 transformation from one reference system to another	
13	Geomatics and the web (2)	
	PW n° : 12 webgis	
	Semester-end exam	
	makeup exam	



We, the students of the 1st year of the **Licence land planning** semester 2 (2022/2023), attest that we have consulted the syllabus of the teaching subject "**Introduction to Geomatics**", and that we have been informed about the evaluation methods.

Nominal List of students:

N°	Family name	First name	Signature
		Prenom	Emargement
1	Yousfi	hanine	
2	Gharbi	Ines	
3	BenaZZouZ	Meriem	
4	Ghirib	Aimén	
5	Bourouba	IsmailLioua Eddio	
6	Bouteldja	Rafika	
7	Ouchekati	SOURAÏLA	
8	Djilab	Donha Tawane	
9	Lahouel	Hadil	
10	Sehili	Reeya	
11	Nedjar	Li Na	
12	Bouabdallah	Houda	
13	Alaoui	Hibatallah	
14	Sjebaili	Kater en nada	
15	Bouzenda	Yeladil	
16	Amrani	Amira	
17	Boukeraa	AYMEN Hyes	
18	ALAOUI	YAHIA	
19	Wail	Merzoug	
20	Nourhane	Boutouatou	
21	Boulahbal	Meriem	
22	Rafaf	Samahen	
23	larab	Chaïma	
24	Asoudi	naamatallah	
25	Amrani	AbdelBasset	
26	Zahi	Nada	
27	Khouchia	Manel	



28	Fahmi	Khansa	Khansa
29	Meksene	Aya.	Meksene
30	Bousmia	Montadha	Montadha
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DERRADJI Saïedhine
05/02/2023