

Research Article

# Towards One health for All; Maintaining Human health in a town through Integration of an integrated scientific projects into a healthy landscaped site.

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**Abstract:**

Chronic diseases in big town as a result of over crowded streets, waste pollutants and factories lead us to work seriously and regourously in order to provide a healthy environment suitable for traitment in ecological town with a suitable density of population for healthy living.

In this research through landscape architecture and the concept of ONE HEALTH as well as the fabric space, we promote health for all through a modern healthy structure in Ouzera town with a salutogenic architecture.

The research in the medical fields is also being developed by establishing an integrated scientific space in Ouzera town according to the local shema for mangement of Médéa territories for the 2030 horizons.

This space is designated with landscape Architecture and one of its research structures proposed for design is a reserch center on animal medicine and productivity that implements the one health initiative.

**Keywords:** One Health; Landscape Architecture; Healthy town; Medicine; Veterinary

## I. Introduction

The university is aperienicing its fourth greeneration with projects of research that contribute to the national economy. And global health face major challenges as a result of contemporary pandemic and their effects. And scientific research initiates the concept of one health ,so how can intergration beachieved between research in a scientific space , university strucures and all regions?.

We answer this questions by choosing the scientific space of Ouzera town as an integrated scientific project suitable to the One health initiative.

## II. From the Ecological environment to a healthy town

Architectural design aims for human health and well being; and serve healthy town and public health. They also acheive the environnemental conditions to provide treatment for disease cases. which creates human comfort and promotes an effective health service. The local shema for territories planning directs the researchers and the effective urban planners to identify the ecological areas suitable for health and develop healthy towns.

The local shema of Médéa territories for horizons 2030 show the ecological areas and we find Ouzera region in the interface of North South Motorway as an ecological zone suitable for developing a healthy town with its scientific scope that enables integrated faculties to carry out an advanced research in the field of health and One health initiative.

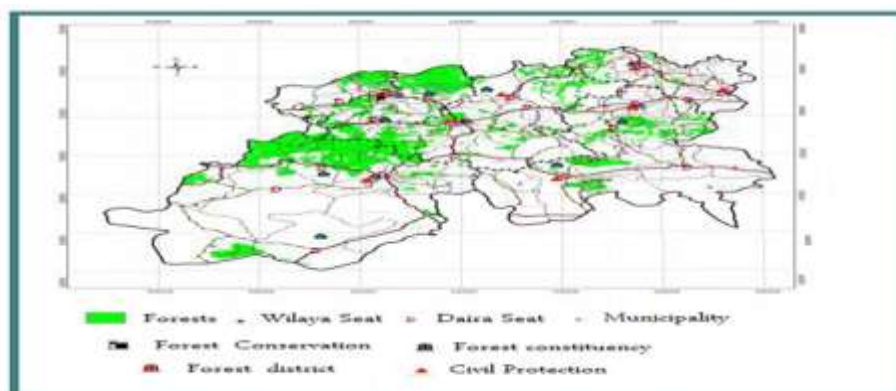
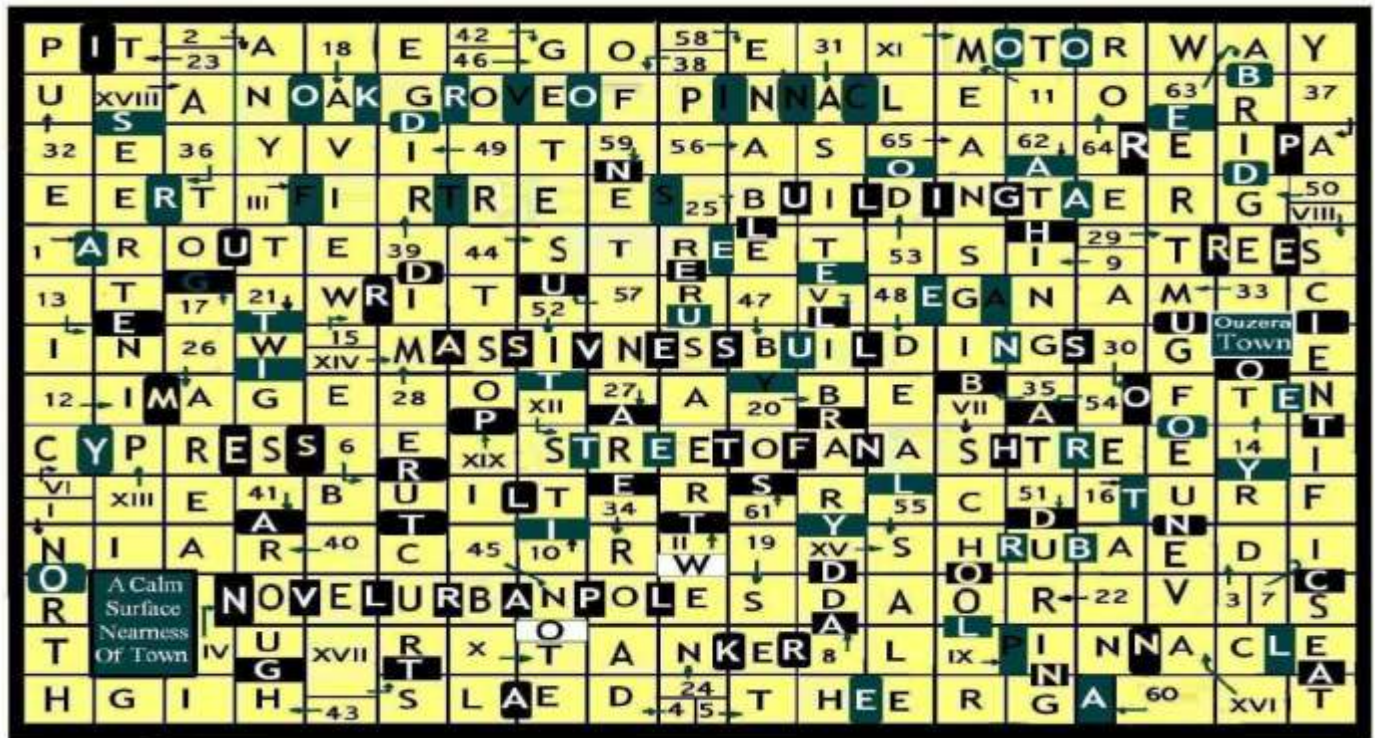


Fig 1:Card of situation ; EcologicalTown of Ouzera  
(Source\* ; by traduized and enriched Author 2024)

### III. Scientific modeling of Ouzera town.


The scientific modeling of town to approach an urban life through a scientific planning who form an urban observatory of Ouzera Town. The model of urbanization from Ouzera town describes with an English vocabulary in an aerial view the urban spaces of ecological town.



Urban modeling of OuzeraTown (Source ;Author2024)

The lecture notes from Ouzera town form an observatory of urban life in Ouzera town.

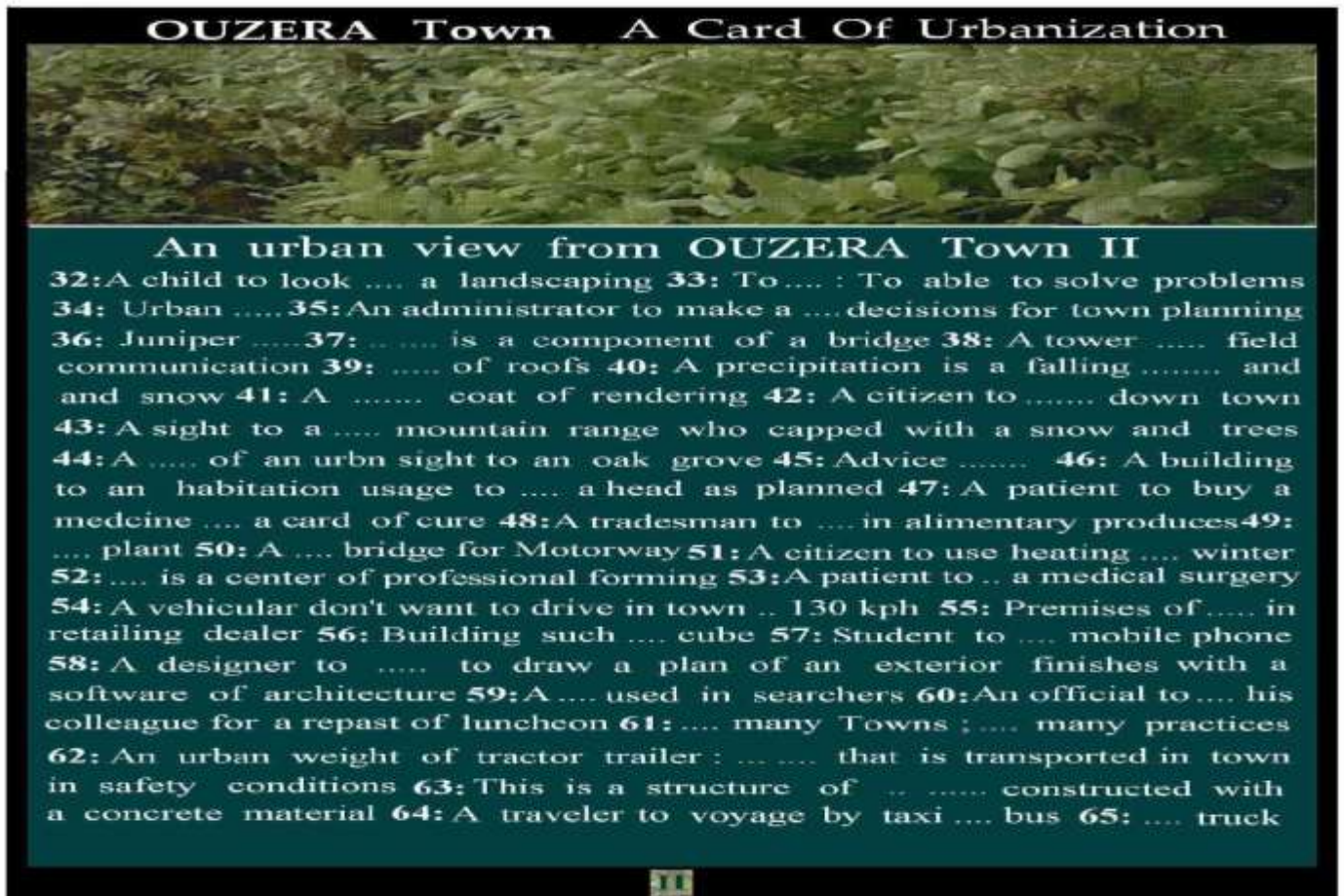
**OUZERA Town A Card Of Urbanization**



**An urban view from OUZERA Town II**

32: A child to look ... a landscaping 33: To ... : To able to solve problems  
 34: Urban ..... 35: An administrator to make a ... decisions for town planning  
 36: Juniper ..... 37: ..... is a component of a bridge 38: A tower ..... field communication  
 39: ..... of roofs 40: A precipitation is a falling ..... and and snow 41: A ..... coat of rendering 42: A citizen to ..... down town  
 43: A sight to a ..... mountain range who capped with a snow and trees  
 44: A ..... of an urbn sight to an oak grove 45: Advice ..... 46: A building to an habitation usage to .... a head as planned 47: A patient to buy a medicine ... a card of cure 48: A tradesman to .... in alimentary produces 49: ... plant 50: A .... bridge for Motorway 51: A citizen to use heating .... winter 52: ... is a center of professional forming 53: A patient to .. a medical surgery 54: A vehicular don't want to drive in town .. 130 kph 55: Premises of ..... in retailing dealer 56: Building such .... cube 57: Student to .... mobile phone 58: A designer to ..... to draw a plan of an exterior finishes with a software of architecture 59: A .... used in searchers 60: An official to .... his colleague for a repast of luncheon 61: .... many Towns ; .... many practices 62: An urban weight of tractor trailer : ..... that is transported in town in safety conditions 63: This is a structure of .. ..... constructed with a concrete material 64: A traveler to voyage by taxi .... bus 65: .... truck

**II**



**IV.Landscaping for health : University sanitary pole**

The modern design of the university hospital in the landscaped site provides the incentive for research and development in the scientific space of Ouzera town. It offers a living interface with high quality areas and advanced services for doctors and patients. The university hospital which specializes in minimally invasive surgery has a capacity of 645 beds and designated in the shape of eye and glasses.

Another university hospital has a capacity of 120 beds situated in the urban pole of Ouzera town in progress of achieving the optimal coverage in medical specialties of utmost importance. The garden of children in its architectural façade ensures an ecological atmosphere for an optimal health care in town.



(Source. Pictures ;Author 2024)

## V.One health and Urban projects in scientific space.

The scientific space in the urban face of OuzeraTown and the suburb scientific site works in integrated capacity of research and aims the one health initiative.

The scientific space participates effectively in the One health initiative by the following faculties described in the following paragraphs with a sight of One Health.

### V.1 Faculty of Architecture and Townplanning.

The recent mondial pandemic and the rapidly transmitted diseases and animal diseases due to the change in life style require the allocations of wide scope of scientific research and advanced studies in the field of salutogenic architecture that contributes to human health and well being in the town. The faculty of architecture and town planning and the research center in landscape architecture to contribute to the development of practical model for salutogenic architecture that produce the urban environment that meets the requirements of One Health in healthy town.

The ecofaculty and the healthy arboretum designed based on biomimicry to contribute to providing healthy atmosphere and comfortable treatment conditions in the university hospital specialized in the minimally invasive surgery.

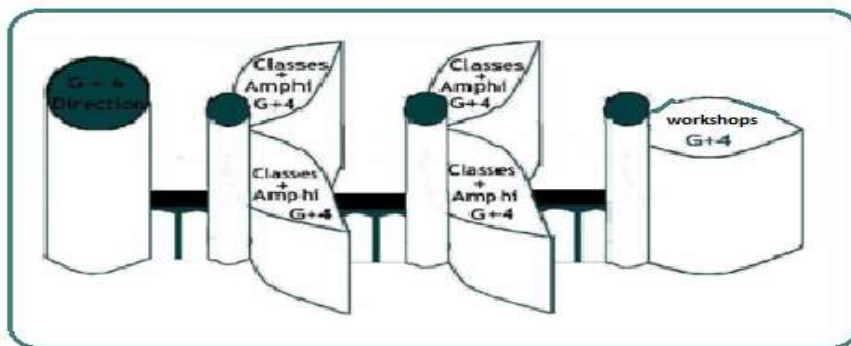


Fig4 : Architectural model on architecture and Town planning faculty (Source ;Author 2024)

### V.2 Faculty of Medical sciences.

Nutritional problems abound in our modern world as a result of the spread of harmful food and irregular meals and the consumed medicines contain large amounts of chemical compounds with side effects on human health.

In the spirit of healthy nutrition and healthy body ; the faculty of medical sciences established in the scientific space of Ouzera town which includes the biological branches and current pharmacy branches active in the faculty of sciences. It also includes the newly established medical annex to become a faculty with new specializations such as advanced surgery.

The medical faculty designated in the form of DNA includes 4000 pedagogical places in four departments and have advanced laboratories of research.

Its research projects participate in the One health initiative in coordination with active sectors.

The research focuses on the following departments : Clinical and emergency medicine specialized in medicine of sport ; Cellular and molecular medicines specialized in metabolic diseases ; Pharmacy and medical innovation specialized in advanced pharmacognosy ; Applied medical sciences specialized in advanced surgical techniques

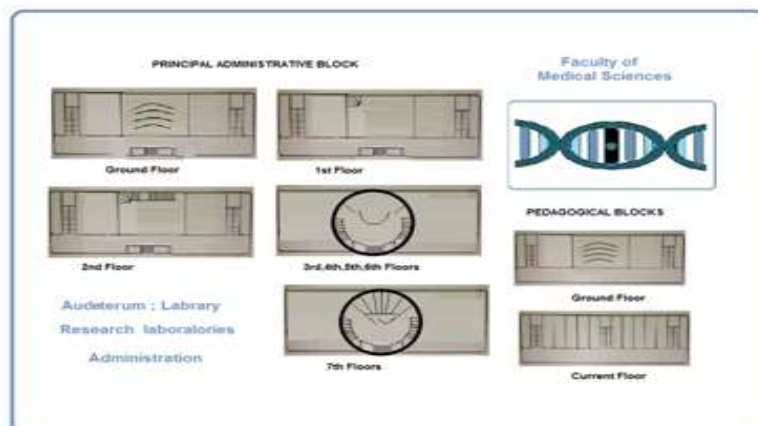


Fig 5: Architectural sketching; faculty of medical sciences (Source; Autor 2024)

### V.3. Faculty of natural sciences and sciences of earth.

Giving priority to the health of agricultural crops aims protecting ecosystem leads to the preservation of human health .and through providing nature water and food safety human life become healthy .

The One health initiative contributes to the developing research in the faculty of natural sciences and sciences of earth in the field of plant health, water quality , climate and preserving forest.

This faculty wick was designated using biomimetics has 4000 pedagogical places and includes the following departments :Engineering of water and environment, geogrpny and geomatics ,geology and geochemistry, geophysics and water ressource,forestry and botanical engineering, geological engineering and plant geomatics, Agronomy, ecological engineering. The research in these departments is being developed based on the current specialization in the faculty of sciences in coordination with the active sectors and the One heath initiative is effective.

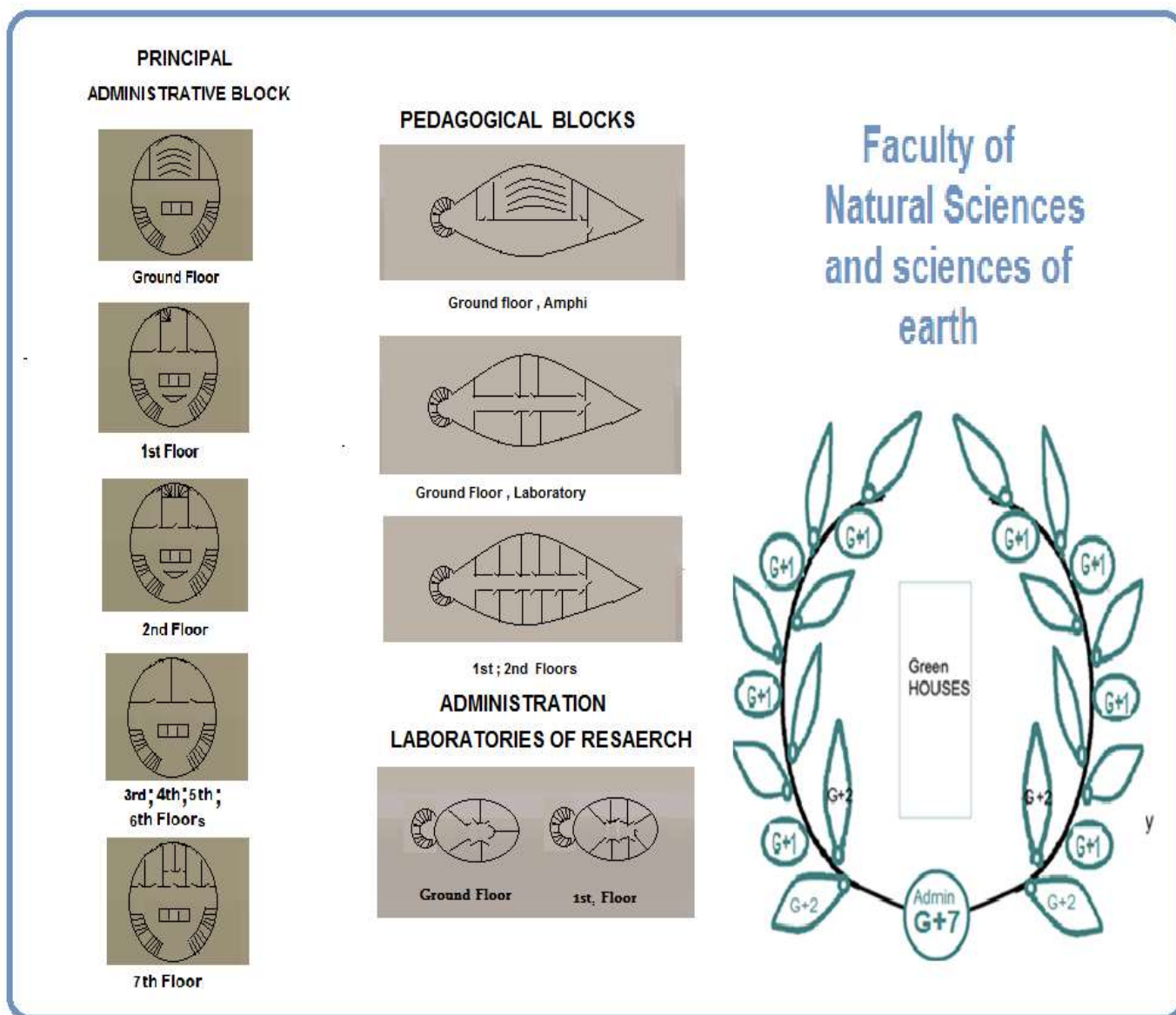


Fig6: Faculty of natural sciences and sciences of earth (Source; Author 2024)

### V.4. Faculty of veterinary sciences and medicine.

The One health initiative is a multi sectoral initiative that seeks to address health problems for humans and animal and achieve an optimal environment for humans and animal in a healthy environment. human health is linked to animal health and provides a healthy environment therefore the faculty of veterinary sciences designated with a view inspired from protein the basic aliment for human. The faculty can accomodate 2000 students and has structures include the following departements : Pathology and Morphology, Microbiology, Parasitic Diseases, Veterinary Biomedicine , Clinical Sciences ,Functional Sciences ,Veterinary and Management , Public Health and Environment. These branches are being developed starting from the current specializations in the faculty of sciences ,so that the faculty of sciences become specialized in sciences and applied sciences. The faculty of veterinary sciences to contribute to the One health initiative through research projects in coordination with an active sectors. Fig7 : Architectural

sketching ;Faculty of veterinary sciences(Source ;Author 2024)

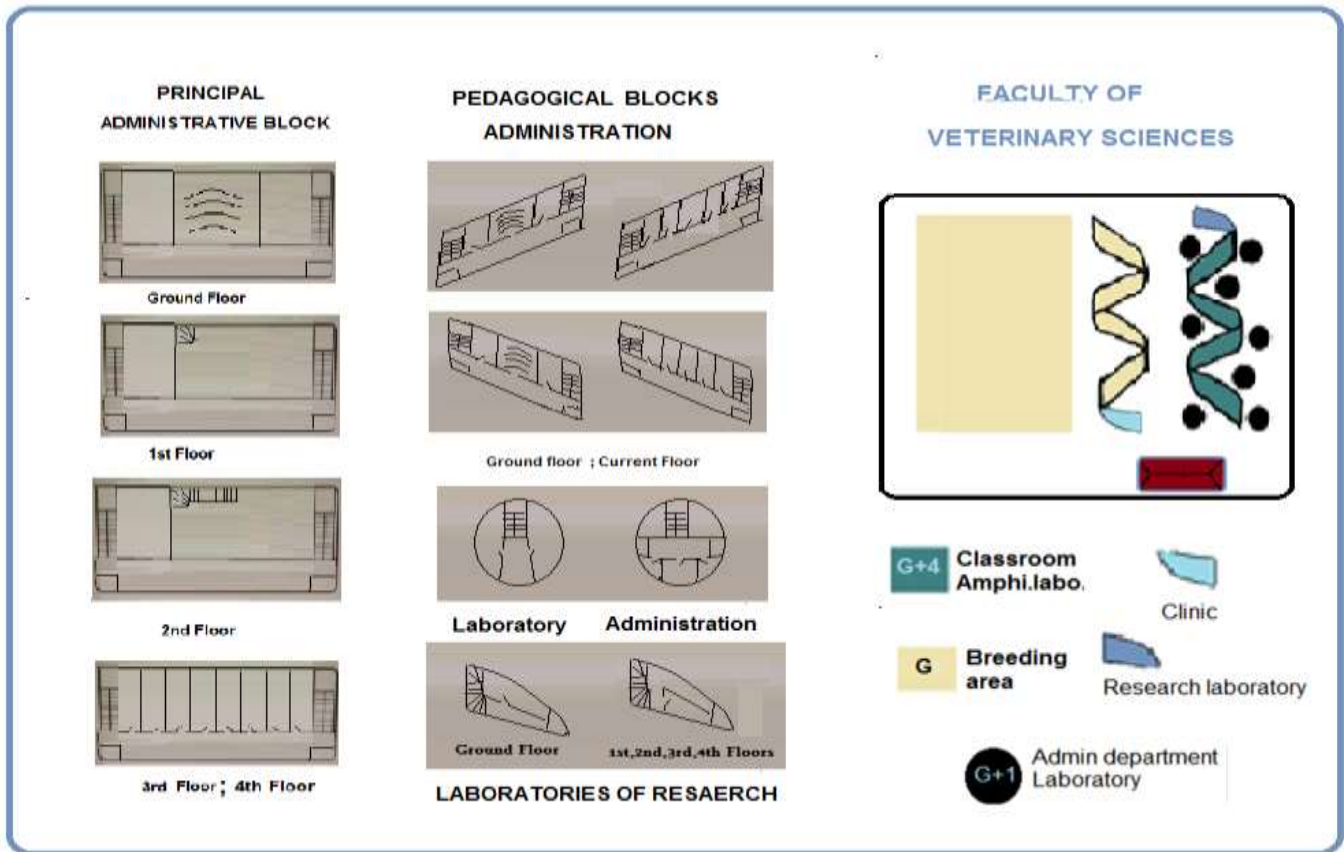


Fig7 : Architectural sketching ;Faculty of veterinary sciences(Source ;Author 2024)

### V\*. One health and prospects of integrated research center.

In the same location where the faculty of veterinary sciences is located, and for the sake of animal production and One Health, establishes a center of research specialized in animal health and productivity. This advanced research center works in cooperation with a faculty of veterinary sciences and an active producing sector for the healthy production of milk and its derivatives, meats and poultry as well as animal health practice and research in its field.

### VI. Conclusion

Completing scientific projects and developing the town space to raise it to a healthy town with all standards to work to provide scientific research space and contribute effectively to the participation of regions in research and development. And from integrated research projects in fourth generation university space the One Health scientific initiative starts up in cooperation with other sectors in social, cultural, economic, sporting and environment contexts.

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