

Ministry of Higher Education And Scientific Research Alkitab University College of Engineering Department of surveying

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Design of Master plan using GIS technique

• A graduation project submitted to the department of surveying engineering.

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Prepared by the students:

- Zahra Adeeb Jameel
- Zaid Haji Salim

Supervised By: Dr. Adil Mohammed Raheem

2020-2021

College of Engineering Surveying Department



Oreen Area Ratio in 150m Street
Design in Erbil

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Prepared by:

Hiwa Sadraden Rasul
Najmaddin Muhammad Hussein
Shwan Ali Smail
Bakhtyar Mustafa Ibrahim
Dastan Rafaat
(4th Stage)

Supervised by:

Mr. Nabaz Yasin

Academic Year 2021 - 2022



العلمي والبحث العلمي والبحث العلمي العلم

الطبوغرافي بجهاز الرصد المساحي (TOTAL STATION) واستخدام برنامج AutoCAD Civil 3D

حَىٰ مَقْدَمُ لَجَامِعَةَ الكتابِ – كلية الهندسة قسم هندسة المساحة كجزء من منطلبات نيل شهادة البكلوريوس في هندسة المساحة

اعداد الطالب:

بور على خلف محمود عدنان دياب

على عبدالكريم منصور علي خلف

اشراف : م. م. ارجان شرف الدين

2022/2021

Republic of IRAQ

Ministry of higher education and scientific research

Alkitab University

Surveying department



Titl

Title of project

Road and Site design

A graduation project is submitted to the surveying department-college of engineering- at Alkitab University as a part of the fulfillment of the requirements for the degree of bachelor in surveying.

By:

- 1. Beston ali khorshed
- 2. Diyar Safir Anwar
- 3. Elham Taha Mamand

Supervisor:

Lecturer: Aydin Adnan Rashid

2021-2022



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Ministry of higher education and scientificresearch University of Al-Kitab Engineering collage Department of surveying-fourth stage



Graduation project book

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Comparison between GIs and field surveying measurement

Name of students: Muahamed Nihad AbdulGhafoor Muahamed Majid Hami Ramal Lateef Hadi

Supervisor: Dr. Adil Muahamed Raheem



AL-KITAB UNIVERSITY
COLLEGE OF ENGINEERING
DEPARTMENT SURVEYING ENGINEERING
2021 - 2022

3D MODELLING OF

3D MODELLING OF
ERBIL POLYTECHNIC UNIVERSITY
BY USING PHOTOGRAMMETRY TECHNIQUES:

DRONE SURVEYING

FINAL YEAR PRODUCT SUBMITTED TO THE COUNCIL OF THE

AL-KITAB UNIVERSITY

COLLEGE OF ELECTRIC DEPARTMENT SURVEYING ENGINEERING

OF THE REQUIREMENTS. THE DEGREE OF BACHELOR IN SCIENCE IN

SUR, EYING ENGINEERING

By:

Waleed Muhameed Salih Twana Omer Suleman Hemn Karem Hamad

Supervised by :

Mr : Ahmed S. Ahmed

AL-KITAB
UNIVERSTY
College of Engineering
Surveying Department



جانبكا المحاب المحمة المرحمة المحامة المحامة

Land Leveling using GIS techanics in Altun Kupri

Prepared by:-

Naseem Imad Halabya Hazem Mowfaq AL-sammak Abdulla Tysser AL-hafidh

Supervised by:-

Dr.Adil Mohammed Rahem

2022-2023

(4th Stage)

The Republic of Iraq
Ministry of Higher Education
And Scientific Research
Al- Kitab University
College of Survey Engineering
Third year (Evening study)



Applications of Remote Sensing

Prepared by

Fakher Saber Hussen

Supervised by

Dr.Adil Mohammed

2022 M 1443 H



وزارة التعليم العالي والبحث العلمي جامعة الكتاب / كلية الهندسة قسم المساحة

أَخْذُ نَفَاطُ لَبِنَايِاتَ الْمعهد التَقْنَي الموصل بواسطة جهاز المحطة الشاملة (Total Station) والإجهزة الاخرى وتحديث البيانات ببرنامج Autocad

مشروع تخرج مقدم إلى كلية الهندسة / قسم المساحة كجزء من متطلبات نيل شهادة البكالوريوس في هندسة المساحة للعام ٢٢ ، ٢٣ ، ٢

إعداد الطلبة

يونس عبد العزيز يونس فادية فيصل قادر

هيثم عبد الرحمن خطاب أحمد عجد سعيد

بإشراف م.م. أرجان شرف الدين عمر ٢٠, ٢٣



وزارة التعليم العالي والبحث العلمي جامعة الكتاب / كلية الهندسة قسم المساحة

إنشاء طريق ببرنامج Civil 3D وحساب الكمياتEarth Work

مشروع تخرج مقدم الى كلية الهندسة / قسم المساحة كجزء من نيل شهادة البكالوريوس في هندسة المساحة للعام ٢٠٢٢ — ٢٠٢٣

إعداد الطلاب

سوران محسن حمه مصطفى

عبدالستار ولي عبدالوهاب

فاخر صابر حسين

بإشراف

م.م.أحمد جاسم

7.74 - 7.77



Republic of Iraq
Ministry of Higher Education
and Scientific Research
Al kitab University
College of Engineering
Surveying Engineering Department

Comparative in Urban Growth among Various local
Jurisdiction of Kirkuk City
Case Study: Laylan, Daquq.

A Thesis Submitted to The College of Engineering in Partial Fulfillment of the Requirements for the Degree of bachelors in Surveying Engineering

BY:

- 1- Hemn Akram Ahmed
- 2- Omer Kakabra Ramathan
- 3- Mohamed Soran Othman

Supervisor Assistant Lecturer

Nabaz Yasseen Shexani

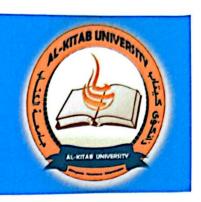
AL-Kitab-University

College of Engineering

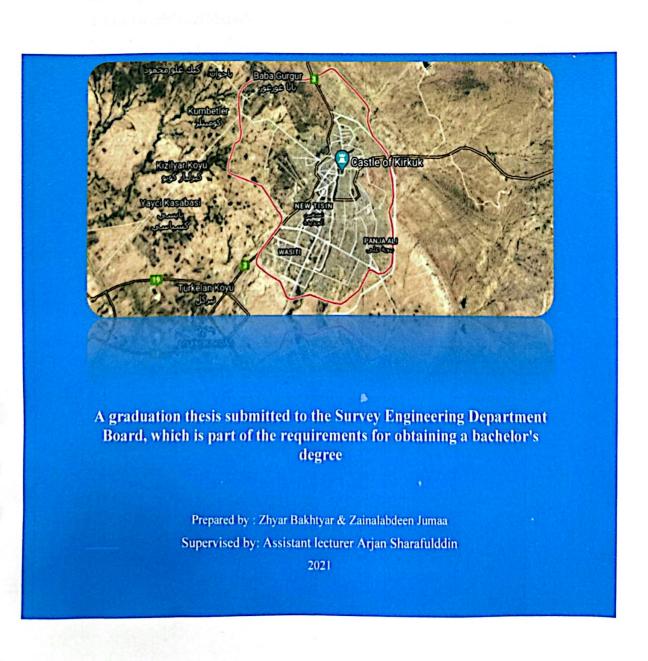
Department of Engineering Surveying

Subject: Final Project

Fourth Stage



PRODUCE A RISK MAP FOR WATER WELLS OF KIRKUK CITY USING GIS TECHNIQUES



Abstract:

The study of the qualitative characteristics of groundwater is one of the important topics in the studies of Applied Geography assigned by planners and specialists in the field of Water Resources and development of great spatial importance, as it is an important natural water potential on which the population in different regions depends to meet their different human needs, and know the quality, In particular in Kirkuk governorate, this study seeks to model the specific characteristics (physical and chemical) of well water in the city of Kirkuk, where samples were taken of the water of (43) randomly distributed wells, and laboratory analyses to assess its viability and use in various human uses after comparing the results of the analysis with the results of the analysis.

Geographic information systems including software (ARC.GIS10) example with derivation tools (spatial straightness) general equality (IDW) for the purpose of digital global longings and exit options for selected groundwater eye points in the study area. And comparison accuracy analysis between methods (IDW) and (Kriging) and which is better, the study recommends the need to use modern technologies represented by geographic information systems (GIS). And remote sensing RS in geographical studies, because of its high ability in data management and processing, analyzing and modeling them digitally, which helps decision makers in sustainable development plans and optimum utilization of water resources, It is possible to use the model presented by the study and apply it to more extensive areas to determine the most appropriate Sites to dig new wells that contain high quality water, which saves time and effort and the cost for high-resolution results.



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Ministry of Higher Education And Scientific Research Alkitab University College of Engineering Department of surveying

Design of Master plan using GIS technique

A graduation project submitted to the department of surveying
 as a partial requirement for fulfillment of Bachelor Degree in surveying Engineering.

Prepared by the students:

- · Zahra Adeeb Jameel
- · Zaid Haji Salim

Supervised By: Dr. Adil Mohammed Raheem

2020-2021

Abstract

The purpose of this project is to design a master plan for Altun-Kuppri by using GIS. The procedure of making the plan and its important facts is in the following chapters:

Chapter One: It's an introduction to the project, it specifies the title, thesis statement and definitions and also project aims as well as all procedures of this thesis.

Chapter Two: Is an introduction to the project, with discussing and explaining main ideas of the concept, it's applications and how it works.

Chapter Three: It contains main, necessary facts about masterplan. To get knowledge about it as well as discussing the benefits, advantages/disadvantages (weakness) of masterplan.

Chapter Four: It contains the project main components and functions as well as the functional relationships.

Chapter Five: Final result of the project, with the conclusion and discussion of the results.

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Republic of Iraq

Ministry of Higher Education
and Scientific Research
Al kitab University
College of Engineering

Surveying Engineering Department

Comparative in Urban Growth among Various local
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BY:

- 1- Hemn Akram Ahmed
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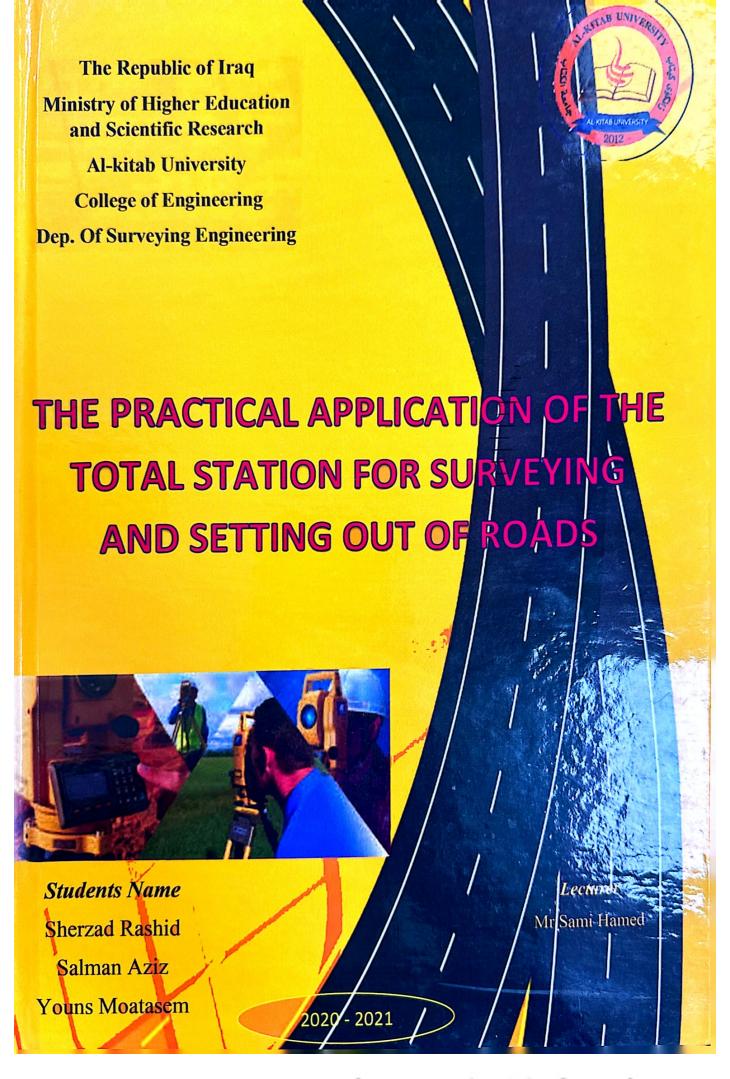
2012

Supervisor
Assistant Lecturer

Nabaz Yasseen Shexani

ABSTRACT

Aerial photos were taken from USGS. (The United States Geological Survey) Kirkuk Governorate and for the same month of the following years (2014-2016), specifically from the (LAND SAT8) satellite, and then the treatment was performed on this image and the distortions and dust were removed by the (ENVI) program, after that image of the specified areas were cropped. One of the main issues in the list of the governments and planning agencies' projects are related to the growth of the urban areas. It is critical to detect the changes and discover the environmental and socio-demographic impacts of them in order to have sustainable management. The main objectives of the stud are: (1) to extract Land cover classes for three years 2014, 2016 using pixel-based classification method, and (2) To calculate the urban growth and changes using change detection techniques. In the course of the research in the two districts of Kirkuk governorate (daquq, laylan) by means of the (ENVI) program as well, noting that a (shape file) for the current official administrative boundaries was made for all the above districts by the (GIS) program. Then, the zones and areas on which the urban development processes were conducted, the changes that took place on the topography of the land and the climatic effects on the changes in the amount of water bodies areas, green spaces and desert areas in those areas for the years (2014-2016) were studied, and a study was conducted on the areas that were transformed from green areas. To non-green areas or vice versa. The numerical values for the areas of the different varieties were extracted (Urban, Water bodies, Vegetation, Sand)) for the areas covered by the above research by the (ENVI) program, then all the information about the areas in question was included in detailed tables and plans showing the area of each category and the percentage of this area out of the total area of the administrative judiciary for each region by means of a program (EXCEL) Then a comparison was made for the changes in the area of each of the items using the (ENVI) program, and digital maps were made with these values by the (GIS) program.



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