TOPOGRAPHIC MAPPING AND SITE ANALYSIS FOR BORNO STATE UNIVERSITY MAIDUGURI, NIGERIA

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PGD/SVG/17/0529

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TOPOGRAPHIC MAPPING AND SITE ANALYSIS FOR BORNO STATE UNIVERSITY MAIDUGURI, NIGERIA

By

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(PGD/SVG/17/0529)

A PROJECT SUMITTED TO THE DEPARTMENT OF SURVEYING AND GEOINFORMATICS, SCHOOL OF ENVIRONMENTAL SCIENCES, MODIBBO ADAMA UNIVERSITY OF TECHNOLOGY YOLA, IN PARTIAL FULFILMENT OF THE REQUIREMENTS FOR THE AWARD OF POST GRADUATE DIPLOMA (PGD) IN SURVEYING AND GEOINFORMATICS

JANUARY, 2020

DECLARATION

I hereby declare that this project report was written by me and it is a record of my own research work. It has not been presented before in any previous application for a higher degree. All references cited have been duly acknowledged.

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IBRAHIM, Ishaya Maina **Date**

DEDICATION

This project is dedicated to God Almighty who made it possible for me to undergo this programme and to my family for their moral support and endurance during the course of study.

APPROVAL

This project report entitled “Topographic Mapping and Site Analysis for Borno State University” meets the requirement and regulations governing the award of Post Graduate Diploma in Surveying and Geoinformatics of the Modibbo Adama University of Technology, Yola and is approved for its contribution to knowledge and literary presentation.

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Mr. E. E. Alhamdu Date

(Supervisor)

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Date

(Internal Examiner)

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Date

(External Examiner)

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Dr. T. K. Abubakar Date

(Head of Department)

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Date

(Dean, School Postgraduate Studies)

ACKNOWLEDMENTS

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I am also grateful to my entire family, my wife Mrs. Elith I. Maina, Ella I. Maina, Chahadi I. Maina and my brothers and sisters.

ABSTRACT

This research project topographic mapping and site analysis of Borno State University was achieved by Field observation, measurement or verification to detect the change that occurred, to produce contour map and update the topographic map of the study area. Data were acquired from existing records and field observation that accurately determined the positions of points measured, locations of details, etc. The software used for the analysis and processing are ArcGIS 10.4, AutoCAD 2016 and Surfer 11. The results showed the current situation of development and structures within the study area such as: new schools lecture halls, senate building, student's hostels, staff quarters and the new un-tarred road linking the institution and Maiduguri-Damaturu high way. The following were the recommended; the use of GIS and remote sensing techniques to determine the spot height for better precision, accuracy and checks in further studies. And also the creation of database and map update of the study area in order to ease data access.

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