MAPPING OF THE SPATIAL DISTRIBUTION PATTERN OF HEALTH CARE FACILITIES IN BAUCHI METROPOLIS, NIGERIA

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PGD/SVG/17/0528

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By

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(PGD/SVG/17/0528)

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

JUNE, 2019

DECLARATION

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

AYUBA, Nuhu Moris Date

DEDICATION

I humbly dedicate this research Project to God Almighty, for His love, mercies, grace, strength and protection throughout my stay.

APPROVAL

This research Project entitled **"Mapping of the Spatial Distribution Pattern of Health Care Facilities in Bauchi Metropolis"** meets the regulations governing the award of Postgraduate Diploma of the Modibbo Adama University of Technology, Yola and approved for its contributions to knowledge and literary presentation.

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ABSTRACT

The main purpose of this research is mapping of the spatial distribution pattern of health facilities in Bauchi metropolis for both the public and private sectors. Lack of accurate map and a robust spatial database of health facilities exist in Bauchi metropolis that can assist policy-makers make informed decisions for the overall benefit of the public is the research problem under consideration in this study. The major objectives include creation of a spatial database of healthcare facilities and analyzing the distribution pattern of the facilities. Methods used include geocoding of the healthcare facilities spatial and attribute query as well as average nearest neighbor index. The result includes the cartographic display of 62 healthcare facilities, clustered pattern of the health facilities and robust spatial database of the existing healthcare facilities. Thus, it has been concluded that the existing healthcare facilities in some few areas at the detriment of other areas. More, so the spatial database developed will enable decision makers to improve future planning of the healthcare facilities. Finally, it has been recommended that both private and public healthcare providers should adopt effective use of spatial database for easy planning and improves access to general public.

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