



University of Zabol
Graduate school

**The Thesis Submitted for the Degree of M.Sc (Geography-planning land use and
real estate)**

**Analysis of the effect of urban creep in the model of urban-spatial-
organization (Case Study: City of Zabol)**

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Abstract

Urban creep is a spatial phenomenon that horizontally causes waste of resources, capital and land destruction and affects the pattern of spatial organization of cities. The aim of the research is to investigate the effect of the urban creep pattern on the structure and spatial organization of Zabul city and to find out what is the most important influencing factor in the occurrence of creep and the most important consequence of urban creep in Zabul city. The current research is descriptive and analytical in nature and has an applied purpose. The method of collecting documentary and field information was (Delphi technique). To analyze urban creep, Heldren's model, Shannon's entropy, for changes of use and mix of use, spatial analysis of neighborhood unit Gis, and for the analysis of experts' Delphi technique, content analysis and repetition coefficient were used. The results of the research show that the creeping in the city of Zabul has taken place in different ways and in the course of the increasing population of the city of Zabul from 18 thousand to 134 thousand during 50 years which has increased 7 times and the flood of internal migrations (from village to city, and the small city to the big city) and foreign immigration (Afghans) the city has also increased its size. Such studies show that various factors and causes are effective in the formation of urban creep in Zabul, among the factors influencing urban creep are urban system policies with 17 repeated cases and 8.67 percent, ineffective laws and management with 16 cases and 8.16 percent, stock exchange The game of land and housing with 15 cases with 7.65% respectively have the most effect on the urban creep of Zabul, and in contrast to the change of the residential pattern, traffic and congestion have less effect on the urban creep of Zabul. It can be said that with the change of use, marginalization, the increase of settlements, the formation of medical, educational and military spaces and the annexation of peripheral villages in the city of Zabul, it has caused the transformation of the spatial organization of the city of Zabul, and as a result, it is the most important consequence of urban creep.

Key word: Sustainable city, Spral, sustainable development, City of Zabol