

SOME COUPLED FIXED POINT RESULTS ON N_p -CONE METRIC SPACES OVER BANACH ALGEBRA

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(Received: May 08, 2025 Accepted: Apr. 09, 2026 Published: Apr. 30, 2026)

Abstract: The main aim of this paper is to introduce the notion of N_p -cone metric spaces over Banach algebra. We define T -contraction map and study some coupled common fixed point theorems in the new setup. Finally, we state an example as an application to illustrate our obtained results. Our results generalize and extend some well-known results in the literature.

Keywords and Phrases: N_p -cone metric spaces over Banach algebra, c -sequence, generalized Lipschitz map, coupled fixed points.