

# Evaluating the performance of project management using network diagrams methods: A case study in the Ramadi Municipality.

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- **Abstract:** This study came for the reason that some project administrations still do not follow the appropriate scientific methods that enable them to perform their work in a manner that achieves the goals for which those projects arise, in addition to exceeding the planned times and costs, so this study aims to apply the methods of network diagrams in Planning, scheduling and monitoring the project of constructing an Alzeuot intersection bridge in the city of Ramadi, as the research sample, being one of the strategic projects that are being implemented in the city of Ramadi, as well as being one of the projects that faced during its implementation Several of problems, the project problem was studied according to scientific methods through the application of the most prominent methods of plans Network (Gantt Chart, CPM, PERT), in planning and scheduling project activities and using computer programs related to network planning methods, especially (MS Project) and (Win QSB) program in determining the nature of relationships and interdependence between activities and processing data for the project to obtain results and draw Project networks The study reached a set of results, the most important of which is when applying network planning methods. This led to a reduction in the project completion time. Reliance on the CPM method and at the same cost allocated under normal conditions to (803) days, but in the case of accelerating the total project, the completion period is (643) days, and when adopting the PERT method, the total period of completion according to the project data is (796) day with a probability ratio of (0.43).
- **Keywords:** probability ratio, Ramadi, CPM, project data