Today's, automated process planning is becoming a widely prevalent technology in modern manufacturing systems. Feature concept is a core required to realize a fully integrated CAD/CAM system. The contents of a feature's information can simply be transferred from one manufacturing activity to another. in the last few years, Automated process planning based on features technology has become popular with its capacity to combine design and manufacturing systematically. Despite its advantages, it is still difficult to recognize and extract manufacturing features automatically from the CAD system database. This paper addressed the development of a Feature-Based Process Planning System (FBPPS) integrated with CAD systems Automatically. The developed system used the knowledge-base method to execute process planning tasks that include; process selection, process sequences, machine tool selection …