

**UNIVERSITI TEKNOLOGI MARA**

**APPLYING RATIONAL UNIFIED PROCESS (RUP)  
METHODOLOGY IN THE DEVELOPMENT OF  
POLICE CAR TRACKING SYSTEM (PCTS)**

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## **ABSTRACT**

This thesis is about the development of Police Car Tracking System (PCTS) by applying Rational Unified Process (RUP) methodology. Ibu Pejabat Polis Kontijen (IPK) Selangor use a system called ProCAD system to send a report via message in text format but the system become a burden because there were too many information to be handled. The ProCAD system is being used with the Global Positioning System (GPS) but they do not know which police car is being used for duty or being taken for other purpose (E.g. escort or repair). The purpose of the PCTS is to match the system with the Global Positioning System in IPK Selangor. The project objective is to gather the user requirement, to design and to develop the system. RUP consists of four phase that is Inception, Elaboration, Construction and Transition. There are nine workflows in RUP that is Business Modeling, Requirements, Analysis and Design, Implementation, Test, Deployment, Configuration and Change Management, Project management, and Environment. By applying RUP methodology, the iteration process helps the system to achieve its goals. The system is developed to help District Control Centre (DCC) to send duty report to the Command Control Centre (CCC) efficiently. The system is focused on how to generate a daily report for District Control Centre and Command Control Centre. It is hope that this project will help the police to do their work efficiently in helping public citizen.