



GRADUATION PROJECT PROPOSAL

Academic Year/Semester: 1433-1434/First

A.GENERAL INFORMATION

- A1. Supervisor(s): Dr. Amir Ahmad
 - A2. Project Title: Improving software quality by using data mining techniques
 - A3. Number of Students: 1-2
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B.PROJECT ABSTRACT

The development of a software with minimum number of defects is a goal of all software companies. However, it is difficult to predict the defects in a software. Generally, data mining (sometimes called data or knowledge discovery) is the process of analyzing data from different perspectives and summarizing it into useful information. Data mining software is one of a number of analytical tools for analyzing data. In this project we will analyze how these data mining techniques can be used to improve software quality and productivity.

C. REQUIREMENTS(both hardware and software)

- **Hardware :** Laptop or Desktop.
 - **Software :** Open source data mining software, any programming language preferably Java.
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D.PROJECT PHASES

- 1- Learning data mining techniques
 - 2- Learning about network security datasets
 - 3- Analysis of network security datasets with different data mining techniques
 - 4- Interpretation of results
 - 5- Report writing
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E. SCHEDULING OF PHASES

- Semester 1: 1-3
- Semester 2: 3-5