



## GRADUATION PROJECT PROPOSAL

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Academic Year/Semester: 1433-1434/First

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### A.GENERAL INFORMATION

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

With the advancement in the internet, network security is becoming an important research problem. 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 network data by using data mining techniques to detect the attack. It will be useful for the network security.

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### 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