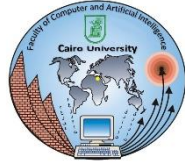




**Cairo University**  
**Faculty of Computers and Artificial Intelligence**  
**Project**



**Department: Basic Sciences**

**Course Name: Math III - (Special Program)**

**Course Code: BMA214**

**Instructor: Dr. Ahmad Moursy**

**Semester : Spring 2020**

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**تعليمات هامة**

- على الطلاب أن يختاروا واحدا من المواضيع الآتية.
- يسمح بأن يشترك خمسة طلاب فقط في كتابة مشروع واحد.

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## **1-First Project**

**Title: A comprehensive survey of methods of solving linear system of equations, eigenvalues and eigenvectors of a matrix with applications.**

In that project, students should discuss all details giving examples and applications in bioinformatics.

## **2-Second Project**

**Title: A comprehensive survey of sequences, series and Fourier series with applications.**

In that project, students should discuss all details of sequences and series as well as all tests of convergence and divergence. Power series and Fourier series should be discussed as well. Students should give examples and applications in bioinformatics.