**معهد هندسة و تكنولوجيا الطيران**

# Course Objectives

## 1. Course Data

| Course Title | Mathematics IV | Code: Math301 | |
|---|---|---|---|
| **Department** | Aeronautical Engineering | | |
| **Academic Year / Semester** | 2018 / 2019 | First Semester | |
| **No. of Hours per week** | Lecture: 3 | Tutorial: 1 | Total: 4 |
| **Course Instructor** | Dr. Mohamed Hussein Eid | | |

## 2. Course Objectives

i- Provide the students essential information and fundamentals of Gamma function, Beta function and Bessel's functions.

ii- Provide the students essential information and fundamentals of Partial differential equations.

iii- Teach students methods of solutions of Wave equation, Heat equation and Laplace equation.

iv- Provide the students the basic concepts of Probability theory and Statistics and their applications in engineering.