

## مقرر: هندسة تحليلية في المستوى

Analytical geometry in the plane

### **Write in one of the following projects:**

**Project (1):** Rectangular and polar coordinates in the plane.

**Project (2):** Transformation and rotation axes .

**Project (3):** Pairs of lines.

**Project (4):** The equations of semi-angles and the angle between two lines.

**Project (5):** Different forms of the equation of circle.

**Project (6):** The polar equation of a circle and the intersection of circles.

**Project (7):** Parabola.

**Project (8):** Ellipse.

**Project (9):** Hyperbola

**Project (10):** Polar equation of conic ( parabola- ellipse-hyperbola).

*End the projects*

*Best regards*

*Prof. Dr. Ahmed E.L-Maghrabi*